

- 0 -

0.1 223:6
01 230:7

- 1 -

1.5 221:4
10,000-foot 163:5
10-15 41:23
100 124:22 156:12
158:25 162:25 165:10
102 202:8 202:20
204:25 216:13
103 215:9
105 215:8
10:30 76:15
10 112:20 124:20
124:21 126:21 127:5
138:22 139:2 139:25
160:25 162:24 175:23
215:4 224:19
110 200:23 202:9
202:10 214:24 215:5
215:8 215:11 215:16
216:2 216:11 216:14
115 220:25 221:3
11 29:18 46:16 46:18
46:25 163:25 224:21
12-month 51:11
125 239:23
12:10 147:2
12 107:15
12a-30 9:6
13-14 17:12
14 45:19
15 82:2 86:8 164:18
176:3
1938 39:14
1970s 123:17
1977 230:7
1978 21:8 97:4 98:5
98:23
1980 35:2 39:2
1980s 35:10 112:21
1988 112:20 135:22
1992 135:21
1996 135:22
1999 136:2
19 128:22
1:30 147:3 148:2

- 2 -

2,000 136:21
2-and-a-half 248:23
2000 39:8
2001 155:21
2002 26:4

2003 26:5 47:20 249:23
200 154:13 154:19
155:6
2020 190:16
20 22:9 37:12 113:14
125:2 131:23 131:24
140:13 241:14 241:15
241:24 242:12
210 90:4
211 90:4
21 46:17 46:24
21st 16:11 46:19 77:6
78:12 93:14 93:18
94:2 109:21 187:23
189:17 190:22 191:4
22 240:11 249:22
25-year 38:11
250 139:5 185:12
243:10
25 21:5 21:15 22:14
23:24 24:18 33:15
34:22 34:25 46:21
53:13

- 3 -

30 113:14 193:7
32 136:22
35 229:22

- 4 -

4,000 25:15
483 31:12 49:3 49:10
60:24 61:4 61:5 61:10
62:9 63:7 63:10 63:11
63:15 63:19 64:3 64:6
64:10 64:15 64:21
65:9 65:13 65:15 66:4
66:5 150:20 152:15
158:7 175:25 176:5
176:19 176:24
483s 49:13 175:21
175:22 177:8 177:9
177:16
4:22 249:21

- 5 -

500 165:9
50 53:8 53:12

- 6 -

6,000 38:25
60 243:16
65 139:2 139:5

- 8 -

80 239:23
80s 39:4
84 161:3
85 220:25 221:2
8:30 6:2 249:22

- 9 -

90 200:23 202:9 202:10
214:23 215:5 215:7
215:11 215:16 216:2
216:11 216:14
90s 129:10 130:14
95 132:22 146:17
215:8
97 215:9
98 202:8 202:20 204:25
216:13
99.999 98:20 216:25

- A -

a.m 6:2 249:22
abate 28:15
Abbott 6:23 10:4
135:11 135:17 136:18
abbreviated 125:15
aberrant 218:5
ability 22:7 24:13
83:6 96:4 98:9 98:9
101:24 101:25 102:3
102:10 108:7 113:18
113:21 114:4 137:24
148:16 167:17 168:3
175:25 176:22 178:6
185:23 242:23 245:8
abroad 22:18
absence 194:19 231:3
absolute 248:17
Absolutely 39:17 98:19
112:11 218:14
absorption 222:24
abstractions 20:10
academe 75:7 123:23
academia 42:15 85:4
85:9 86:18 87:14 97:11
99:5 101:8 102:20
106:22 109:22 114:24
117:9 120:7 163:13
163:18 166:6 178:17
197:9
academic 8:18 40:22
42:7 43:4 58:8 77:3
77:20 86:5 104:14
108:4 111:23 191:14
191:16
academician 41:22
academics 80:12 87:18
Academy 137:3
accelerator 125:17
125:18
accept 125:22 125:23
125:25

acceptability 202:9
acceptable 213:19
227:18
acceptance 25:2
131:4 161:2 161:20
222:4 227:17
accepted 126:16
246:4
accommodate 50:2
accomplish 12:16
28:18 37:23 38:2 38:8
53:7 60:12 68:8 223:16
227:14
accomplished 27:12
174:17 216:6
according 28:25
account 221:14
accuracy 101:2
accurate 65:7 240:5
accurately 120:24
achieve 27:7 74:19
74:25 191:2 212:10
212:11
achieved 111:5 111:6
150:5 192:5 194:5
217:19
achieving 31:6 169:14
acknowledge 170:24
180:25
acknowledges 9:15
acoustical 242:17
ACPS 197:3
acquired 132:13
across 38:13 45:14
82:16 86:12 86:12
94:9 99:3 115:2 150:21
156:19 230:12 231:14
244:22
acting 7:13 10:2
action 61:3
actions 14:22
active 22:16 43:16
45:20 81:21 81:25
211:23
activities 31:3 57:15
73:17 134:2 186:23
187:2 187:22
activity 28:7
actual 38:21 52:12
59:9 61:22 68:14 95:7
95:10 157:2
ad 111:2
adapted 23:21
add 35:14 35:15 40:16
41:18 42:10 59:24
61:17 70:16 74:9
122:5 125:16 138:20
146:17 167:24 176:25
177:15 218:3 223:4
235:2
added 35:23 190:8
195:16 200:14
addendum 65:9 244:2
adding 30:18 125:20
addition 9:7 78:24
149:10

additional 41:14 49:13
53:16 53:16 60:7
150:22 158:16 203:23
address 10:11 13:13
16:19 18:8 28:11 29:22
34:16 48:10 71:14
159:19 175:20 199:20
201:17 211:14 233:7
addressed 19:4 50:15
50:21 56:23 122:3
150:23 162:11 201:11
233:6
addresses 8:11
addressing 50:20
103:23 177:7 199:23
199:25
adequate 53:17
adequately 36:18
134:13
adjourned 249:20
adjusting 28:19 29:11
Administration 8:24
adopt 54:20 179:2
adopted 23:19 23:20
adopting 54:24
adoption 26:13 149:19
advancement 190:4
advances 22:22 23:13
23:19 23:22 26:14
41:25
advantage 51:18 59:14
59:18 61:12 61:22
240:14 240:17
adversarial 71:5 71:6
71:10 73:3 73:6
advice 232:10 232:12
232:16 233:4
advisor 7:15
Advisory 6:5 6:7 11:15
11:19 16:23 16:24
16:25 17:16 17:23
19:9 20:2 31:5 48:7
189:8 232:10 233:3
advocating 165:2
affair 246:6
affairs 6:18 7:14 43:3
43:5 44:21
affect 16:17 131:14
196:7 225:12
affected 230:3
affects 11:24 55:22
139:24
affordable 148:11
afraid 143:3
afternoon 18:13 18:23
73:24 75:22 148:4
148:6 164:12 187:14
187:14 187:20 245:22
afterthought 244:2
afterwards 124:13
agencies 34:3 66:11
105:9 144:6
agency's 9:5 21:8
26:20 29:25 31:20
34:22 227:25
agenda 10:6 10:20

18:10 37:17 41:21
57:17 128:12
agent 139:22
aggressively 185:2
agree 33:15 61:9 66:24
73:8 94:8 115:5 122:2
145:23 150:11 162:3
162:3 162:21 172:21
179:12 187:7 193:24
197:12 200:12 207:5
207:15 208:2 220:20
228:9 235:18 246:8
246:9
agreed 65:16
agreeing 97:23
agreement 53:11 59:5
66:23 165:18 165:19
169:9 173:5 183:20
191:8
agreements 58:22
AIDS 135:20
aiming 247:13 247:14
airing 62:3
Ajaz's 200:13 211:10
Ajaz 8:5 43:6 70:3
73:22 77:16 93:20
120:15 120:16 129:5
145:23 160:13 162:9
162:17 185:15 186:16
200:7 203:17 204:11
207:25 209:15 211:17
233:6 245:21 248:8
249:17
alert 10:25 11:2
alive 59:25
alleviate 134:2
allocate 28:23 52:3
113:2
allocating 70:23 152:7
allow 28:7 48:13 75:17
137:14 172:6 229:17
229:18 241:17
allowed 146:17 146:19
allowing 148:7 160:10
241:15
allows 28:24 95:21
222:8 240:25
alluded 22:25 74:2
ambitious 41:21
165:5
amend 46:24
American 26:21 148:12
151:14 191:20 191:21
amounts 139:23
analogy 213:22 213:23
analysis 24:13 24:14
24:15 24:21 25:7 33:23
34:11 39:23 39:25
40:2 40:23 81:23
131:5 142:7 185:7
188:9 188:14 194:24
195:15 198:19 210:5
analytical 142:20
172:25 179:6 214:9
analyze 24:17 92:2
96:24 119:9 162:24

162:24
analyzed 24:18
analyzer 137:20 137:24
anchor 226:3 226:4
226:15
ANDA 142:15 158:18
158:19
angle 214:6
angles 68:25
announced 26:4
189:13 190:22 247:17
announcement 8:11
165:3
annual 180:3 180:5
answer 15:16 15:25
16:18 20:4 32:24 58:17
59:2 59:2 68:9 117:14
132:4 161:11 162:19
168:8 182:9 219:14
222:6 222:8 224:5
227:8 227:24 242:23
answered 13:2 15:15
160:7
answers 58:15 205:4
anticipate 11:17
anticipated 51:7
246:25 247:3
anticipating 212:4
anybody 58:17 206:17
anymore 119:16
anyway 11:5 120:8
anywhere 145:10
apart 94:12
API 36:3 36:8 36:10
36:16 89:14 132:22
132:24 133:8 133:9
141:10 141:15 170:10
APIS 141:11 170:10
apparent 148:23
appeal 176:3
appear 135:15
appearance 8:13
appeared 135:18
135:18
appendix 107:7
applicability 8:16 8:18
applicable 113:24
116:3 230:12
applicant 231:17
application 22:23
25:19 27:10 29:14
50:8 159:2 159:7
184:25 185:3 195:23
216:22 238:5
applications 12:19
23:5 54:8 117:19
149:15 149:17 149:18
150:11 151:9 159:15
236:22
applied 24:24 31:19
70:23 152:7 238:8
applies 25:22 25:25
114:10 140:22 248:20
apply 8:21 9:13 24:13
47:18 52:2 52:12 55:13
71:12 71:13 79:22

118:6 132:12 144:10
162:19 173:24 184:23
185:6 209:24 210:10
239:12
applying 24:10 25:24
27:18 40:22 41:5 72:4
184:2 237:17
appointment 107:2
107:7
appreciate 16:20 33:20
41:12 56:17 69:15
160:8 210:21 234:10
appreciation 43:15
approached 154:4
233:15
approaches 23:24
24:25 26:17 26:18
27:25 32:19 40:11
56:13 56:15 59:14
70:22 71:22 152:6
188:24 197:21 198:15
199:2 204:12 210:15
247:19
appropriate 30:19
62:3 64:7 101:6 101:8
101:21 101:22 133:8
148:22 149:8 149:13
169:21 196:9
approval 48:12 48:14
48:15 75:14 75:18
76:7 144:22 149:17
151:9 166:4 171:19
171:22 174:2 175:8
177:10 180:2 215:14
215:16 221:13 230:24
231:4
approvals 150:18
approve 189:20
approved 23:5 98:23
149:14 149:17 176:14
176:20
approximately 53:8
53:12
April 47:20 165:8
aqueous 139:15
arbitrary 131:21
aren't 38:19 135:8
237:2 242:14
argue 81:16 104:12
113:25 223:18 229:24
arguing 232:2
argument 100:2 100:19
100:20 100:22 176:8
205:19 238:15
arise 31:9
articulate 75:19
ascending 91:19
ascertain 171:6
aseptic 19:2 19:7
174:10 177:22 179:8
189:6 189:7 196:18
Aside 235:9
asking 116:18 153:23
162:15 215:2 233:5
aspect 53:6 53:22
69:21 74:13 94:7 96:5

97:18 116:4 238:19
aspects 27:25 29:25
 44:13 44:14 48:18
 67:12 96:14 114:19
 116:2 189:18 191:8
 236:9
assay 226:5
assess 171:10 178:23
 184:7
assessing 193:20
 198:20 242:8 242:11
assessment 28:6 40:12
 154:20 172:12 172:20
 175:19 177:18 179:2
 209:19 211:25 245:9
assign 174:2 246:22
assist 87:22
assistance 13:5
associate 245:15
associated 21:11 47:11
 72:12 103:22 111:20
 130:11 172:9 172:18
 172:23 177:21 178:7
 190:21 191:4
Associates 7:20
association 163:8
associations 163:13
 163:19
assume 116:22 213:4
 213:6 214:15
assumed 231:16
assuming 73:15
assurance 103:7
 149:24 195:11 195:17
assure 56:13 239:19
assured 151:15 194:5
asymmetry 208:22
attack 247:15
attacked 122:3
attention 31:16 36:22
 74:7
attentive 218:22
attitude 73:4 73:5
attractive 236:5
attribute 207:23
attributes 171:25
 227:12 228:7
audience 6:16
Augsburger 145:9
August 26:4 163:22
authorities 191:23
authority's 59:8
automate 101:25
automated 92:4 94:13
automatic 123:7
automatically 72:18
Automation 121:23
 123:2
availability 26:23
 64:15 167:25 171:2
 216:24 217:24
average 120:25
avoid 73:11
aware 34:17 34:19
 42:22 59:4 61:2 154:7
 189:9

awareness 42:24
awful 63:11

- B -

backbone 249:4
background 43:24
 69:25 111:23 142:20
 142:24 187:12 199:8
 199:9 199:13 211:12
 246:16
backgrounds 17:13
 199:16
backwards 104:13
 208:16
bad 33:11 44:24 170:4
 170:5
bag 158:2
balance 74:14 193:23
 194:2 194:2
balancing 36:25
bang 52:22 118:13
barometer 211:24
 212:4
base 58:2 113:3 117:7
 124:20 167:23 171:20
 175:7 178:20 214:3
baseball 124:19
baseline 214:18
bases 124:21
Basically 12:5 13:20
 18:5 19:8 19:22 45:13
 46:17 48:13 51:16
 54:16 54:23 56:22
 66:18 101:21 112:8
 116:20 139:3 139:17
 242:3
basket 194:11
batch 95:10 142:11
 162:2 215:18
batches 105:21 130:19
 133:16 194:20 231:6
battery 213:8
Bayesian 198:15
BCS 229:19
beats 98:3
beautifully 116:4
becomes 68:18 74:4
 76:3 121:23 196:4
 196:20 218:25 230:25
 240:5 242:7
becoming 121:24
 174:11 222:24
beefing 30:16
beg 182:25
begin 15:17 53:14
 54:7 56:15 56:16 57:18
 58:3 58:13 58:13 68:7
 76:15 77:13 83:15
 104:6 106:4 123:6
 190:15 190:19
beginnings 80:5
begins 96:5 99:9
begun 55:25

behalf 10:2 148:6
behave 117:11 227:9
behavior 71:21 224:13
 224:18
beings 78:25 95:13
 114:6
belonged 110:24
below 78:18 79:22
 100:19
benchmarking 57:4
beneficial 150:15
 160:12 170:12
benefit 6:14 73:16
 204:15 207:12 209:5
benefits 60:5 74:20
 90:25 97:12 217:17
benefitted 113:8
Bensley 188:6
bent 77:3
besides 67:18 68:14
big 52:7 69:7 69:10
 86:14 108:6 113:17
 117:11 117:23 191:22
 192:21 209:23 219:22
 225:3
bigger 80:20 87:15
 89:3 89:21 104:17
 106:10 106:12 118:12
 119:24 122:20 126:18
biggest 38:23 118:13
bio 159:16
bioavailability 222:17
 225:13 239:18
bioavailable 225:9
bioequivalence 100:24
 101:3 239:20 239:23
bioinformatics 118:9
 118:18 120:5
biological 26:2
biologics 54:11 54:14
 54:23
Biopharmacology
 17:3
biostudy 227:5 231:5
biotechnology 22:24
 34:25
biotechs 87:4
bit 18:12 20:6 20:10
 20:15 20:19 25:9 26:8
 26:9 37:3 40:18 42:13
 44:4 44:23 45:21 47:7
 49:20 65:4 66:9 112:20
 120:22 131:13 152:22
 153:10 157:15 163:6
 191:7 200:20 203:16
 231:23 236:16 245:17
bite 210:8
bits 69:2
black 227:7 228:16
blend 43:2 131:4
 227:16 227:18 228:7
blended 82:13
blender 81:20 81:22
 81:25 82:9 241:10
 241:16 242:19 243:14
 243:14 243:15

blenders 242:10
blending 89:19
blip 35:23
blood-concentration
 222:18
BMW 213:9
Board 197:4 203:2
 230:12
boat 162:13
bodies 60:11
body 79:11 79:11 79:12
 79:12 80:7 84:18
 132:8
boils 112:8 186:6
bold 163:9
bona 63:18 63:20
books 113:9
bore 129:11
bottom 82:20 92:9
 99:24 104:21 205:25
bound 88:12 88:16
 142:12
boundaries 105:19
 123:8 123:9 175:13
box 67:7 67:7 70:5
 88:17 88:19 89:5
 143:4 143:5 227:8
 228:16
boxes 67:9 89:13
brakes 213:8
break 75:2 76:11
 207:3 207:18 209:10
 210:24 211:4 214:8
breakeven 180:19
bridge 43:4
brief 75:2 180:11
briefed 19:12
briefings 57:2
briefly 30:24
bringing 188:13
brings 82:11 82:17
 88:15 193:8 193:23
 195:12 195:18 247:22
broad-based 39:24
broad 8:15 40:2 40:8
 148:13 190:9 207:9
 240:21 244:14 249:8
broader 8:17 20:8
 25:11 55:19 72:3
 160:2 199:25 240:17
broadest 132:14 163:2
broadly 25:21
broken 163:11
Brownian 115:16
buck 52:23 118:13
build 73:25 77:18
 83:14 145:25 192:11
 207:6 221:24 229:10
 232:8 233:16 235:6
Building 9:6 80:15
 127:21 127:25 146:3
 219:17
bull's 125:11
bullet 25:12 194:16
 196:11 210:8 240:9
bullets 175:18

bunch 26:25 112:24
112:25 113:6
burden 58:24 85:10
89:25 246:9
burdened 59:23
burdensome 59:21
60:2 172:9 198:17
204:12
burn 28:13
business 6:13 8:8
74:11 74:11 74:12
74:13 87:24 90:15
91:11 92:7 108:11
109:17 126:8 126:20
127:10 127:12 142:10
145:15 176:17 206:3
206:7 206:16 209:5
byproducts 141:12

- C -

C.f.r 46:18 46:24 90:4
CA/PA 62:25 100:5
calculate 120:25
184:12
calculating 111:12
185:8 185:9
calculations 210:4
caliber 6:11
calling 101:6 101:9
189:15 189:25 204:4
calls 94:2
candidate 134:21
capabilities 13:14
24:14 114:19 201:8
201:12 206:24 214:9
capability 102:7 102:9
105:5 105:5 105:6
111:16 112:22 113:10
114:8 114:16 115:24
172:3 174:24 174:25
195:24 196:15 198:9
200:21 200:24 205:19
206:5 206:15 206:23
234:2 239:6
capable 114:3 196:2
202:3 202:4 202:8
207:12 208:16 216:13
capacity 36:17
capital 181:12 181:13
capsule 135:22
capsules 82:14
capture 79:15 91:8
108:12
captured 199:11
capturing 157:20
car 213:5 213:6 213:9
213:22 213:25
career 70:5 70:14
156:8 190:17 228:11
careful 239:11
carefully 185:5 192:18
220:19 226:14
Carlos 132:16

Carnegie 112:21
113:5 114:13
carries 174:3
carrot 74:24 76:9 76:10
231:24
carrots 74:19
carrying 139:18
catch 45:5 129:13
240:10
categories 111:9
111:11
category 111:4 111:5
111:6 244:7
caterpillars 223:10
223:11
caught 124:23 135:13
causal 83:10
causality 92:2
caused 228:4
causes 90:9 115:7
115:9
cautioning 152:23
CBE 180:2
CBER 15:25 25:13
54:18
CDER'S 15:21 26:19
CDER/CBER 15:19
CDER 8:6 15:24 25:13
50:13 50:13 54:17
55:8
center's 31:25
Center 7:23 8:3 13:9
16:8 16:11 17:12 31:22
32:3 44:19 46:13 50:19
53:2 53:6 53:20 53:23
55:2 56:7 174:13
174:16 177:3
centered 150:19
centers 25:13 27:13
27:14 43:8 45:15 52:18
53:11 91:3 101:5
central 143:12 143:12
century 16:12 46:19
77:6 78:12 93:14 93:18
94:3 109:21 187:23
189:17 190:22 191:4
CEO'S 118:4
CEO 117:25
certificate 81:23
certification 68:20
244:25 245:2
certified 246:20 246:23
cetera 155:6
cgmp 46:18 79:20
94:3 97:4 97:9 97:20
98:18 108:2 128:5
157:12 203:2 204:16
204:18
cgmps 77:2 77:4 77:5
77:6 77:7 77:8 77:23
82:19 93:14 93:18
98:5 98:23
chain 226:18
chair 45:17 51:2
chaired 70:6
chairing 6:4

challenge 21:18 21:25
23:2 42:23 43:16 77:8
112:13 122:9 138:13
184:2 184:4 184:14
184:18 186:3 203:12
208:5 209:23 210:16
241:3 243:5 244:4
244:20 244:24 246:14
challenges 20:13 21:16
41:4 69:20 69:21
199:19 219:18 244:10
246:18
chamber 137:21
chances 96:8
changed 17:17 21:6
35:6 130:5 143:23
205:23 206:9 206:10
208:18 223:25 242:19
changing 24:8 29:4
71:21 117:2 138:18
140:25 190:11 206:13
218:18 218:19 231:7
241:13 241:16
characteristics 249:3
characterize 133:8
133:10 141:24
characterized 122:10
226:23
charge 70:7
chart 28:12 33:7 35:23
36:5
charted 37:9
check 6:22 74:14
143:4 143:5
chemical 42:21 86:24
86:25 87:3 89:17
129:23 129:25 132:6
132:17 144:10 155:6
191:20 191:21 247:13
chemistry 17:25 25:19
56:5 95:24 114:5
132:10 142:21 150:14
chemists 133:2 228:14
chief 128:17
child 135:11
choices 136:14
choose 79:2 79:20
79:21 80:7 84:7 92:6
94:4 122:18 154:18
choosing 79:7 119:8
chosen 133:10 192:17
213:14
circular 238:15
circumstances 248:20
cities 113:16
claim 180:16
claims 86:24
clarification 47:5 70:19
clarify 47:4 47:8 49:12
49:14
clarifying 148:9
class 92:13 155:23
229:18 229:19
classes 21:24 83:12
126:7 155:22
classical 39:25 238:11

classification 173:8
classify 173:9 173:10
173:10 173:13
Claycamp 237:16
cleaning 179:13 179:18
clear 63:17 70:21 70:24
71:16 71:17 86:13
107:16 150:4 156:22
157:4 157:8 166:12
245:25
cleared 154:2
Click 133:22
client 214:22
cliff 137:16
climate 126:4
climb 84:13 85:11
92:14 92:20 95:17
99:9 99:18 100:11
101:12 108:19 108:23
109:7 122:18 206:2
climbed 83:22 108:25
climbing 39:5 97:13
99:13 100:17 108:14
109:3
clinic 194:21 205:7
clinical 87:9 100:25
133:16 133:17 133:20
186:4 203:6 203:10
204:21 217:9 217:16
220:5 238:17 238:19
238:22
closely 11:11 16:9
44:12 44:16 44:18
44:20 53:2 156:8
closer 85:25 85:25
98:13 219:7
CMC 17:25 25:20
149:15 159:16 189:24
213:18
CMM 112:21
coalitions 149:7
coat 140:10
coating 139:13
code 143:22
coin 102:18 102:19
102:20
coined 129:8
Colin 128:11 128:16
145:4 145:5 145:9
146:6 188:5
collapse 100:12
collapses 100:13
colleagues 42:10 75:10
collection 95:11
collective 212:21
colleges 41:25
columns 214:10
combination 104:7
combinations 136:22
combine 79:25
commend 126:2
164:2
commensurate 28:20
comment 10:13 33:6
33:7 33:11 33:19 37:19
38:10 39:12 39:19

39:20 62:23 63:6 69:16
75:2 116:13 120:15
120:21 121:17 123:16
154:21 156:6 180:15
186:11 203:17 209:25
243:3
comments 20:4 42:10
58:18 67:11 69:4 73:22
74:9 85:8 112:19
117:15 121:16 146:21
159:3 164:6 175:20
185:14 188:10 211:8
223:3 223:14 231:8
231:9 234:17 236:12
248:13 249:17
commercial 64:23
84:8 85:24 142:2
172:5 173:24
Commissioner 190:24
commitment 165:8
165:11
commitments 156:16
committee's 197:24
committees 31:5 75:8
232:10
commonality 166:18
communicate 40:4
49:9 62:9 62:15 65:19
communicated 68:15
108:25
communicating 49:5
66:2
communication 12:11
31:6 55:5 60:24 94:24
128:4 150:20 151:11
170:2
communications 31:4
31:23 31:24 49:3 49:17
66:4 68:13 169:22
community 191:15
191:16 197:7 210:7
210:18
companies 8:23 49:25
61:25 62:2 74:7 86:13
106:15 108:7 112:25
113:7 113:15 122:17
134:4 136:8 136:8
136:9 141:9 142:13
144:20 160:18 192:24
196:12 196:14 215:20
215:23
company's 122:21
208:13
company 9:21 9:24
62:2 64:24 85:2 85:10
107:25 113:19 118:12
125:3 125:13 128:18
135:14 142:24 142:25
143:10 173:18 214:23
238:16 240:20 240:25
245:5 246:7
comparability 12:23
12:24 29:13 48:23
130:10 130:12 134:9
145:15 187:24 188:2
188:6 231:2 240:24

compare 134:9 139:5
140:8 191:20
compared 221:17
comparing 139:2
221:17 222:13
compartmentalized
156:22
compendia 201:3
compete 108:7 108:9
competitive 240:14
complaint 111:7
complaints 100:5
complementary 84:21
completed 46:5 224:7
229:11
completeness 85:15
complex 22:25 139:11
172:23 182:16 196:19
221:3 221:19
complexity 34:23 37:4
177:20 182:12 182:22
182:23 196:18
compliance 6:19 7:21
14:22 29:5 44:15 45:2
50:19 87:24 151:18
155:3 155:16 155:20
177:19 182:11 182:14
182:23 189:18 189:24
complicate 127:8
complicated 52:8
complying 156:16
component 25:13
25:19 229:14
components 27:10
93:21 97:21 120:23
247:20 248:19
composite 116:25
composition 17:19
131:19 134:22 134:25
135:3 135:4 143:19
144:7 229:14
compositions 224:24
compound 135:16
135:21 136:18 136:22
compounds 128:20
150:12
comprehensive 21:8
35:12 136:13 212:8
compressed 82:13
221:18
compressibility 131:6
compression 177:23
241:13
computer 44:4 85:22
computers 85:19
concentrate 130:12
134:19
concept 54:9 129:13
134:11 166:14 166:16
169:12 171:5 174:8
174:20 174:22 174:22
179:19 179:23 188:19
192:13 240:25 248:2
concepts 23:25 72:5
148:14 166:20 183:25
184:3 188:13 212:25

237:17 242:14
conceptual 165:19
concern 42:17 171:17
191:25 228:4 228:12
228:17
concerns 42:13
conclusion 31:15 64:13
conclusions 73:16
concrete 20:19
conduct 22:7
conducted 155:15
conducting 68:22
155:4
confidential 64:23
conflict 8:9 8:11 70:10
conflicts 9:13 9:16
9:18
conformance 99:25
99:25 103:2
confused 153:10
confusing 46:22
conjunction 149:6
connect 80:19 88:5
88:6 95:16 96:5 97:22
101:10 112:19 114:8
118:24
connected 88:21
100:5 116:8 231:15
connecting 82:8 82:9
96:19 103:15 105:13
connection 26:11
120:10
connectivities 101:2
connectivity 77:19
80:15 82:12 101:18
connects 78:24 97:19
97:19 106:9
consensus 233:16
236:23
consent 103:25
consequence 118:15
consequences 95:2
118:23
conservative 228:25
considerably 140:19
consideration 69:14
70:12 228:2
considerations 237:13
consistency 27:18
153:22 177:4 237:12
244:20 244:22 244:24
245:4 245:7 247:22
consistent 26:23 27:15
29:15 29:19 30:13
32:11 50:8 50:23
150:21 151:18 153:21
156:19 161:21 190:7
215:19
consistently 37:12
151:20 156:15
consists 139:12
consolidates 38:13
consolidation 38:15
consortium 241:5
constant 140:5
constantly 111:23

constraints 150:6
constructed 142:18
consult 6:17 7:20
consultant 6:16 7:17
7:19 9:14
consultants 163:19
165:11
consume 82:23 98:10
contacts 123:23
content 114:12 160:24
220:24 221:9 226:4
context 25:22 25:23
79:8 93:17 132:13
177:9 182:3 183:8
193:21 197:18 208:6
239:13 249:6
continually 170:12
continuation 179:22
continue 18:25 21:20
38:7 44:5 106:4 149:7
177:9 179:5 181:18
197:16 205:16 210:24
210:25 216:19 228:22
continues 16:4 44:24
continuing 46:12
continuous 75:24
187:25 190:5 195:11
195:17 198:14 219:23
248:6
continuum 167:6
contract 113:17
contracts 56:21 56:24
57:5 110:23 113:2
contrasted 112:4
contribute 45:23
165:14
contributes 178:5
contributing 167:15
contributions 210:21
control 72:14 72:23
73:18 89:24 92:3 99:17
102:19 103:6 103:15
103:15 122:15 123:7
131:16 132:23 135:9
137:9 138:4 138:6
138:10 138:14 139:6
139:6 139:7 139:8
139:22 140:6 140:7
141:10 141:14 143:9
143:15 144:17 144:18
145:24 150:25 153:2
167:10 167:16 170:11
196:15 196:22 198:5
204:9 206:5 206:24
206:25 207:16 210:4
controlled-release
139:10
controlled 131:2
141:5 141:6 143:25
196:21 202:13 204:25
controller 60:18
controlling 122:25
131:7
controls 25:20 60:20
141:19 185:20 198:23
223:24 227:15 245:16

convenience 167:24
conventional 224:4
conversation 106:4
 106:5
conversations 49:6
cookbook 161:14
 161:15
cooperation 59:19
 151:15
coordinate 16:14
coordinated 54:2
 190:6
coordination 27:8
 27:13 69:8 69:11
cope 246:10 246:11
copy 9:4
core 30:17 55:3
corporate 38:18
Correct 39:15 146:13
 146:15 153:4 153:7
 167:2 185:8 202:11
corrections 65:24
correlate 92:2
correlation 182:17
correlations 123:6
correlative 83:16
cost-benefit 97:15
cost 87:24 89:9 107:9
 216:23 217:3 217:23
 217:24 218:12
costs 100:13 100:16
 107:10 108:17 108:18
 217:25
counterterrorism
 34:25
countries 7:2 22:19
 60:8 104:22
country-by-country
 60:6
country 38:13 156:19
couple 8:2 91:5 113:15
 123:20 134:19 140:17
 140:19 152:3 164:17
 170:5 211:21
course 14:24 15:20
 16:4 17:20 19:3 36:13
 41:4 46:4 61:23 63:9
 79:22 84:5 108:16
 111:24 115:3 115:3
 144:8 214:25 237:18
courses 53:16
cover 47:2 63:11
 155:21 220:7 220:8
coverage 155:19
covering 63:12
covers 189:18 201:10
CP 114:18
CPKS 114:18
Crawford 93:19
create 73:25 74:6
 76:5 106:23 119:10
 129:9 132:12 134:8
 134:11 145:13 193:23
 198:18 209:4
created 21:16 23:9
 106:24 113:20 228:12

248:4
creates 21:25 24:19
 96:3 118:22
creating 47:3 187:10
credibility 207:22
creep 37:7
criteria 131:4 133:12
 155:4 161:2 161:20
 162:23 222:4 227:17
 239:22
Critical-to-quality
 171:24
critical 12:6 12:8 28:4
 29:8 30:11 42:16 72:11
 91:25 92:2 107:12
 126:9 126:16 131:3
 131:15 139:20 141:18
 143:8 145:25 174:14
 176:16 179:10 179:12
 179:17 205:9 216:24
 224:11 233:4 247:12
critically 66:15
Crosby 110:10 110:15
cross-cutting 30:15
crossover 72:9
crucial 31:5
crystallization 136:21
crystallizations 136:10
cultural 111:23
culture 110:5 110:6
 112:15 169:6 169:16
curious 33:22
current 10:11 77:9
 77:25 97:6 106:2
 134:6 149:11 150:6
 160:25 186:8 187:22
 190:12 202:22 203:18
 227:8 227:15 248:6
currently 56:24 128:17
 158:19 158:21 159:9
 171:13 245:12
curriculum 53:15
 68:19 87:2
curve 105:25 106:2
 140:9 167:14 168:2
 168:4 168:6 172:22
 172:23 173:2 173:3
 173:7 173:15 173:16
 173:18 178:4 180:19
 180:20 181:4 181:7
 181:9 181:17 216:17
 222:19
curves 139:3 166:24
 180:20 181:22
custom 245:7
customer 82:22 83:2
 83:3 100:23 105:3
 186:2 205:21 205:25
 206:3 206:4 206:4
 206:7 206:8 206:11
 206:17 207:7 208:5
 208:18 208:20 208:23
 209:2 209:3 219:2
customers 104:23
 237:3
Customs 25:3

cutting 155:11
CVM 25:13 188:12
cycle 83:5 84:5 87:25
 100:15 125:3 125:6
 125:18 173:22 174:20
 174:23 175:2 179:23
 198:25 204:13 215:4
 215:10 218:8 218:9
cycles 179:20

- D -

D.h 7:20
dad 115:8
daily 156:3
Dan 7:19 34:14 58:18
 60:14 153:9
danger 182:13
Daniel 9:2
database 171:12
 207:8 224:8 238:23
date 59:10 152:23
David's 233:12
David 18:11 19:17
 19:18 19:21 19:24
 36:21 37:16 41:17
 44:8 45:3 45:7 46:9
 46:16 49:3 51:2 51:22
 52:20 54:12 56:11
 58:7 58:21 67:25 71:14
 74:2 169:8 173:21
 176:12 183:6 183:17
 186:22 192:3 197:25
dealing 130:20 130:21
 158:7 219:2
deals 118:22
dealt 203:2
deans 42:20
debate 212:22
decade-and-a-half
 130:6
decades 132:5
decide 68:2 77:25
 79:19 84:3 171:14
decided 246:18
decider 115:2
decision 95:12 113:4
 122:19 122:21 122:23
 126:20 143:3 156:3
 170:16 170:18 185:2
 185:3 215:14 222:8
 228:21 230:5 230:10
 239:24
decisions 62:17 156:18
 176:18 193:10 235:5
 238:13
declined 22:8 37:12
declining 22:12 42:2
 42:5
decrease 38:16 52:19
decreased 34:18 34:19
 36:23 108:16
dedicated 162:9
deem 151:10

deemed 151:2
deep 86:9 103:16
 111:25 115:17 240:23
deeper 88:23 101:23
defeats 220:16
defects 100:4 229:2
Defense 110:22 113:6
deficiencies 49:5
deficiency 159:21
define 51:23 52:11
 77:23 77:23 79:10
 114:15 115:25 115:25
 121:13 134:15 142:3
 142:6 183:22 184:5
 184:6 185:5 185:21
 186:5 186:25 190:24
 191:2 198:7 208:6
 213:17 221:12 221:14
 222:5 226:14 236:21
 239:16 243:9
defined 114:5 121:5
 121:19 129:10 131:20
 143:25 157:16 157:22
 182:2 182:2 183:24
 203:10 233:16 245:24
defines 131:3 161:18
 185:21 207:9 227:18
 231:2 238:14
defining 40:11 43:24
 121:8 145:24 149:10
 184:23 188:19 210:12
 210:13 233:20 239:11
definite 149:21
definitely 51:23 165:22
definition 73:6 77:21
 78:6 78:13 78:18 78:22
 79:2 79:5 79:17 79:23
 79:24 80:5 80:7 80:11
 80:12 80:16 80:23
 81:8 88:10 107:18
 107:19 109:9 148:24
 149:13 152:4 152:5
 163:2 167:25 173:20
 182:3 182:4 182:5
 184:11 185:17 185:22
 188:18 197:16 197:17
 236:14 236:16 237:5
 237:6 238:7
definitions 79:6 88:10
 107:16 107:17 183:10
 183:10 183:22 185:6
 188:19 198:8
definitiveness 111:9
degree 23:8 31:24
 35:7 122:11 194:19
 204:15
delay 171:18 178:25
delayed 94:11
delays 150:17
delight 78:21 78:25
deliver 148:17
delivery 119:17 119:19
 140:18 142:21
Deluca 7:10 7:10 36:21
 41:18 41:20 63:7 64:14
 75:3 75:5 121:17

123:14 217:6 217:10
 217:15 230:14 236:14
 237:21 241:19
Deming 103:14
demonstrate 168:22
 173:6 208:10 239:8
demonstrated 168:19
 175:9 175:15 180:7
 242:24
Dennis 188:6
density 131:5
Department 110:22
 113:5
departments 42:22
depending 173:16
 173:17 201:13 236:21
derived 78:9
descending 91:20
describe 79:10 81:12
 82:5 89:18 233:17
describing 80:18
 109:4 113:19
description 88:14
 88:19 129:16
descriptions 82:7
Descriptive 81:19
 82:3 132:7
designing 30:6 103:16
 238:22
desire 157:17
desired 187:3 187:4
 190:20 191:3 194:4
 197:2 200:10 200:11
 211:11 211:16 234:13
despite 95:15 98:8
 118:20
detail 26:6 75:16 89:19
detailed 199:10 237:17
details 88:19 149:5
 152:21 162:15
detection 214:16
deter 216:4
determination 59:9
 63:22 151:3 213:20
determine 34:5 48:4
 49:4 51:12 52:4 52:8
 54:25 55:12 57:19
 72:24 137:22 184:7
 213:23 223:25
determining 152:8
deterrence 126:4
 126:5 126:7
deterrent 124:7 124:13
 125:12 217:20
develop 50:23 114:24
 133:10 139:19 141:16
 144:20 149:8 152:24
 170:6
developing 30:7 30:16
 31:7 54:25 129:12
 130:17 179:19 213:11
 225:19
develops 238:16
deviation 162:25
 167:20 168:5 168:20
 172:15

device 24:4 219:5
Devices 7:24 7:24
 219:7
devote 34:9
devoted 27:22 36:24
 39:5
diagram 82:14 90:19
 91:7 91:24 92:12
diagrams 89:11
dialogue 149:7 151:23
dichotomy 238:11
Dick 7:17
dictionary 78:3
differ 201:12
difference 86:14
 102:15 103:18 103:18
 140:20 194:12
differences 86:11
 225:3 242:5 246:12
differently 144:13
 203:3 246:4
difficulties 115:23
difficulty 39:24 130:17
dimension 81:7 81:9
 81:11 81:16 82:18
 83:23 83:24 83:25
 84:2 84:4 84:15 89:6
 116:24
dimensions 80:19
 80:22 80:23 83:6 88:2
 109:10 113:12 249:3
directing 52:21
Director 7:23 76:24
disability 86:19 87:11
 106:6
disadvantage 61:25
disagree 137:9 216:16
disagreement 165:19
 235:12
disagreements 32:4
disastrous 142:9
disc 244:10
discipline 132:6 191:24
 208:3
disciplines 42:2 183:25
 191:19
disclose 9:25
disclosure 128:15
disconnected 102:14
disconnectivity 94:14
discovery 22:24 136:13
discrete 81:13
discuss 176:2 186:19
 204:5 233:22 235:24
discussed 8:17 69:22
 96:16 189:7 189:7
discussing 145:10
 184:23 204:5 234:5
discussions 10:5 41:14
 76:13 77:19 129:7
 166:9 166:18 188:21
 195:25 199:20 199:23
 199:25 210:23 210:25
disincentives 223:18
disintegration 222:9
 222:10

dismissed 210:14
dispersed 139:12
disposition 61:5
dispute 31:7 49:20
 50:22 51:11 62:10
 62:12 62:24 63:2 65:3
 65:7 68:3 68:5 150:20
 152:15 176:21 177:13
 248:9
disputes 31:10
disrupting 248:6
dissolution 135:23
 194:21 194:22 195:2
 195:2 195:3 222:2
 222:11 222:16 222:19
 222:20 222:24 223:4
 223:5 223:5 223:6
 223:9 224:18 225:2
 226:5 226:8 226:24
 229:21 230:9 230:11
dissolutions 227:21
dissolves 223:9
dissolving 222:7
distill 164:19
distills 169:2
distinct 81:7 132:7
distinguish 221:9
 244:6
distinguishing 194:13
district 65:16 153:18
 158:6 158:6 158:7
 162:5 176:2 176:7
 177:11
districts 150:21 156:13
diverse 17:13 23:2
 199:16
dividing 20:12
division 137:25 159:23
 246:10
Divisional 10:4
divisions 244:22
 246:2 246:3 246:5
divorce 166:13 166:16
doable 122:6
doc 153:2
document 64:5 66:7
 95:9 123:19 127:23
 127:24 128:4 129:11
 130:8 143:10 143:16
 143:17 162:6 231:18
documentation 95:11
 178:9
documented 78:4
 222:15
documenters 121:24
documents 64:19 66:14
 66:16 66:23 150:3
 150:25 151:13 151:16
 151:18 174:10
DOD 236:6
domain 240:16 240:19
 241:3 243:5 243:23
domains 243:24
domestic 35:24 36:5
 36:14 38:25
doors 169:25

doorstep 174:11 179:7
dosage 22:18 120:22
 130:19 154:16 200:23
 204:25 205:2 207:24
 222:3 222:7
dosages 205:10
dosator 244:11
dosing 244:10
dot 224:22
draft 12:24 48:24
 179:8
dramatic 22:22 24:12
 36:15 112:14 228:17
dramatically 21:19
 33:14 34:24 36:8 39:6
 131:14
drastic 241:16
draw 89:4 181:20
drawn 36:22 180:21
 181:3
dreamed 197:2
drew 88:17 169:3
dried 82:13
drift 137:15
drifting 144:15 144:16
drifts 142:8
drilled 139:14 140:13
drilling 140:3 140:6
 141:13
driver 170:23
drives 114:12
driving 178:18 185:2
 244:21
drop 90:15
drove 214:11
Drugs 8:3 21:23 21:23
 21:24 22:25 25:10
 25:11 25:12 26:2 26:21
 26:23 28:17 30:7 38:20
 52:5 118:4 129:17
 129:20 152:9 154:13
 218:24 220:16 224:10
 229:18 229:19 229:19
dry 89:17 125:20
 138:19
drying 89:19 125:17
dwindled 42:15
dying 98:3
dysfunctional 107:16
dysfunctionality
 119:22

e-records 47:4
ears 42:4
easier 31:7 38:17 66:20
 122:23 213:23 225:15
easily 24:18 123:12
 158:15
easing 21:10
econometrics 210:5
 210:6
economic 73:12

economical 151:21
economics 236:18
economies 205:2
 205:11
edge 137:16
edges 212:20
educate 57:3
educating 126:14
education 43:17 49:15
 67:12 67:17 127:13
 149:8 210:11
educational 43:11
effected 180:4
effectively 28:10 48:22
 73:20 179:4 193:9
 197:17 240:20
effectiveness 28:17
 100:11 103:4 103:6
 103:7 114:20 236:24
 237:8 237:13
efficacious 82:21 98:21
 105:23 105:24 122:17
 202:5 213:21 216:3
 225:8
efficacy 82:4 83:2
 98:17 99:4 99:19
 109:24 116:8 167:24
 205:22 206:20 207:8
 214:2 214:17 214:22
 220:7 226:6 226:16
 229:8 235:5 236:18
 238:13 238:14 238:23
 239:3 239:3
efficiency 47:10 73:19
 100:11 100:15 103:4
 114:20 193:12 195:18
 201:23 241:23
efficient 100:8 103:8
 133:3 190:7 194:6
 194:7 194:9 195:13
efficiently 28:11 52:25
 237:9
Efraim 6:21 6:23 9:25
 62:19 63:5 66:8 73:22
 108:13 116:13 221:22
 231:11
Einstein 81:2
electronic 29:18
Eli 9:24
eliciting 210:3
eliminate 242:20
emerge 207:7
emerging 236:23
 236:24
emphasis 42:8 86:7
 212:6
emphasized 43:12
 123:25 124:2
empirical 34:5
employed 9:21 9:24
 10:3
employees 8:20
employment 131:2
empty 67:7
enable 66:22 104:10
 106:5 108:12 108:14

130:25
encapsulation 89:20
encapsulator 244:6
encompasses 25:14
 40:2
encounter 220:22
encourage 26:12 56:13
 108:12 144:20 164:2
 190:4 223:17
encouraged 146:10
encouraging 245:14
endeavor 151:24
 218:16
ended 79:7 97:5 208:24
endpoint 122:7 122:12
 139:6 157:15 242:12
endpoints 121:8
 121:13 138:24 227:15
energies 28:8
energy 25:7 27:22
 34:9 66:14 140:5
 140:7 140:24
enforcement 32:18
 149:4 152:12 152:18
 161:6 192:7
enforces 25:15
engage 186:21
engaging 20:22 20:23
engine 213:7
engineering-based
 193:5
Engineering 7:16 42:21
 47:12 69:24 86:24
 86:25 87:3 87:5 89:17
 110:18 111:16 116:16
 121:2 129:2 129:24
 132:6 132:17 144:11
 191:17 191:18 193:19
 243:20
Engineers 191:21
 243:13 243:16 247:13
enhance 27:13 27:18
 47:12 80:17 157:17
enhanced 151:11
enhancing 29:24 30:13
 155:13
enjoyed 123:14
enriched 24:14
enroll 191:10
ensure 28:10 47:10
 50:8 51:25 70:22 82:3
 109:24 152:6 237:11
entail 148:24 149:4
enter 177:13
entirely 141:24 162:4
entities 155:6
environment 20:13
 21:14 24:12 60:20
 85:24 139:15
environmental 21:17
 170:11 170:15
envisioned 134:6
envisioning 223:20
 226:24
EPA 25:3 99:15
equipment 117:3

144:2 223:17 225:21
 230:21 230:23 242:24
 243:4 243:7 243:14
 243:18 243:22 244:2
 249:5
equivalence 59:9
 100:24 101:3 227:6
equivalent 59:8 60:4
 127:24
era 226:25
esoteric 104:14
espoused 146:8
essence 24:8
essential 191:2 205:15
essentially 140:5
 145:25 153:14 180:6
 182:5 185:21 185:22
 186:19 186:25 188:13
 195:9 207:8 207:10
 213:20 220:6 222:18
 225:2 225:5 232:25
 239:22
establish 52:15 133:11
 146:10 220:6 222:10
establishes 131:3
establishing 185:20
 193:10
establishment 38:12
 38:16 221:24
establishments 39:7
et 155:6
EU 60:3 60:3 60:7
 104:22
European 59:6 125:23
evaluate 51:12 161:19
 175:25 228:15
evaluated 154:3
evaluating 48:3 193:10
Evaluation 8:4 46:2
 46:3 57:8 64:6 70:6
 144:11 245:20
event 10:5 167:20
 168:5
eventually 136:15
everybody 6:15 11:6
 39:16 108:5 109:22
 118:22 170:20 202:24
everyone's 25:4
everyone 10:22 46:22
 47:2 51:17 65:14
 169:12
everywhere 121:22
 173:17
evidence 37:2 161:4
evident 134:3
evolution 91:4 91:6
 128:2 191:6 214:8
 245:4
evolutionary 248:7
evolve 121:25 212:8
evolved 197:2
evolves 41:15
evolving 73:3 193:4
exact 35:18 229:13
 229:16
exactly 90:6 119:5

129:23 149:2 156:10
 215:16 227:24
examine 142:5
examining 32:19
example 34:5 40:25
 63:22 68:18 68:21
 71:7 74:23 124:25
 135:6 137:18 139:10
 150:25 198:15 198:17
 201:25 203:3 212:16
 213:6 221:25 222:15
 222:22 224:4 224:8
 224:15 227:11 227:16
 229:10 229:12 230:13
 237:10 239:5 240:21
 244:6
examples 12:23 20:18
 135:7 135:8 135:9
 200:10 212:15
excellence 42:9 43:8
 103:5 103:9
excellent 24:5 40:6
 150:16 182:14
exception 203:17
exchange 32:3
excipient 228:3 241:13
excipients 81:21
 117:4 131:12 141:11
 141:12 241:24 242:13
excited 11:8 95:4
exciting 11:7 18:4
 164:19
excluding 36:2 36:8
exclusion 10:8
Executive 7:13 76:24
exercise 190:25
exist 108:12 225:18
 246:12
existing 32:18 182:4
 184:24 185:6 185:6
 192:7 225:22
exists 91:11
expanded 60:7 113:11
expectation 149:25
 202:23
expedite 56:22
expense 35:12 42:2
expensive 22:20 85:25
 95:14 104:2
experiences 84:13
experiment 195:16
 224:11
experimental 34:6
 210:3 224:16
experimentation
 125:5
experiments 136:21
 198:19
expert 53:10 188:9
 210:3
expertise 47:12 54:6
 79:13 247:9
experts 53:23
explain 51:22 181:24
explaining 64:11
explains 20:22

explanation 34:20
67:8 232:5
explanations 34:22
explore 105:19 136:11
137:6 137:11
exposure 183:24
expressed 148:20
165:24
extend 77:18
extension 77:15
extensions 115:4
external 20:24 26:9
30:25 31:24 55:11
56:23 208:13
extreme 65:23
extremely 74:12 218:25
extruded 139:17
eye 125:11

- F -

face 244:5
faced 69:20 243:4
facilitate 14:3 14:12
15:5 26:12 94:21
171:22 174:15 178:24
facilitating 14:4 14:11
26:22
facilities 39:2 177:21
facility 27:9 27:20
182:21 237:7
factor 22:10 35:3
216:24
factors 34:4 34:10
194:17 196:7 201:15
213:3 214:10 225:12
225:14
facts 79:11 129:17
factus 78:10
fail 105:19 107:20
107:22 125:9 125:10
failed 62:6 144:16
failing 135:22
failure 100:4 107:16
107:18 124:19 188:13
198:19 230:12
failures 142:11 215:22
fairly 135:9 238:7
fairness 10:11
falls 137:16
familiar 120:15
Famulare 47:6 59:4
61:17 63:19 64:19
76:9 154:23 155:3
161:23 162:7 162:17
204:7 206:18 206:22
206:25 228:23 229:4
fared 38:12
fashion 151:21 169:21
fast 157:10
faster 125:21 127:18
144:22 157:7 247:3
fault 210:2
favorite 25:4 33:22

FDA'S 9:19 20:7 32:16
34:24 44:5 47:12 70:25
71:21 93:12 93:18
94:18 192:5 243:18
FDAERS 169:25
FDAMA'S 21:10
FDAMA 212:23
fear 138:5 202:18
February 26:5 134:11
155:21 163:24 190:23
feedback 56:5 89:24
141:21 197:13 234:9
234:11 234:12
fell 154:14 243:23
fence 216:17
fide 63:18 63:20
fifth 115:13
fight 248:24
figured 80:24
file 125:14 142:5
149:20 159:2 159:6
159:18 229:6
filed 138:4 150:11
159:18
filing 133:18
filings 243:8
filler 131:21
filling 192:23
film 139:16
finalized 179:11
finance 40:17
financial 8:21 9:9 9:20
10:7 10:12 40:23
103:10
Finder 79:18
finding 59:7 128:19
findings 166:10
finer 215:23
finish 88:25 92:16
finished 22:18 59:11
125:19
fire 110:3
firm's 177:19 204:15
firm 10:12 63:25 64:22
65:15 152:13 153:13
154:9 155:19 156:15
159:5 161:6 161:9
168:19 172:19 173:9
173:10 173:11 173:13
173:13 204:9
firms 9:10 10:6 13:3
16:9 38:25 50:3 50:8
52:17 149:19 153:19
154:4 157:17
fit 114:17 219:7
fitness 41:9 41:9
167:21 167:23 168:5
168:24 170:22 170:25
171:9 172:2 172:16
179:15 179:16 180:7
183:14 185:17 185:19
fits 48:4 187:22
five-day 125:3
five-six 217:12
fix 72:21 135:4 140:21
flawed 111:10

flesh 198:7
fleshed 149:6 152:22
157:18 157:24 162:15
flexibility 79:19 168:19
flexible 76:5 168:15
175:5 204:8
flow 82:14 88:12 88:16
88:25 89:10 90:19
91:7 91:24 92:12
131:5 232:21
fluid 131:25 138:20
139:7
focused 12:21 46:21
47:3 50:14 52:12 61:16
74:7 120:3 128:19
178:16 179:5 179:22
192:2
focuses 104:16
focusing 28:9 28:14
40:10 51:16 72:4
228:6 236:17
FOI 64:20
folded 49:19 64:10
folks 27:11 50:19
249:16
follow 20:19 63:8 64:9
72:25 203:15 205:11
Food 8:23 24:7 76:13
fora 32:10
Ford 212:16
foreign 22:14 24:22
24:22 24:23 35:23
35:24 36:14 36:18
60:11
forget 88:6 129:18
218:23 219:2
forgot 8:3
formal 51:15 51:16
formally 50:24
format 187:12 211:12
formation 130:25
formed 27:20 145:8
Formerly 128:21
132:16
formulate 230:2
formulation/fill 88:25
formulation 121:4
132:3 134:16 139:11
139:11 142:16 171:8
194:17 196:6 213:3
224:9 224:16 225:4
229:25 240:23
formulations 128:20
150:13 221:3 224:20
224:20 224:25 225:6
230:2 244:12
forth 59:20 64:25 69:2
70:24 160:17 164:3
185:25 188:14 188:15
192:25 193:25 196:10
196:22 198:22 201:23
206:23 212:17 220:16
224:9 224:12 225:10
225:12 227:10 228:15
232:24 233:14 233:21
235:25 238:19 240:24

244:12 244:17
forthright 151:11
fortunately 19:18
fortune 86:23
forum 32:9 89:15
149:13 150:16
forums 149:9
Foundation 42:18
85:10 86:6 94:7 96:6
99:3 99:9 100:7 100:9
100:14 103:8 105:24
113:18 113:21 114:21
114:25 119:18 120:14
122:20 122:23 123:7
214:3 234:22 235:5
238:13
foundations 105:10
105:11 117:24
founded 193:19
fourth 166:5
fraction 191:22
frame 37:19 66:18
66:19 118:14 153:15
framework 20:22 29:19
98:14 109:4 112:24
114:9 127:21 132:7
236:8 248:22 249:2
249:11
frankly 73:10
Freedom 9:5
freeze-drying 125:5
frequency 155:11
frequent 144:22
fresh 74:17
frontier 81:4
fronts 156:23
fruit 51:3
fruitful 76:12
FTES 37:10
full-time 9:22 9:24
10:3
fully 27:12
functional 241:11
functioning 248:4
functions 242:16
fund 72:6 117:17
117:18
fundamental 112:11
131:9 134:14 171:5
185:16 222:12
fundamentally 113:13
170:25
fundamentals 132:9
132:11 141:17
funding 118:7 119:20
furosemide 229:19
fusing 210:2
future 14:23 17:18
19:15 56:2 56:19 67:25
77:10 157:4 186:25
187:5 187:6 190:13
190:24 191:6 197:12
197:15 200:19 203:6
203:13 227:11 244:5
244:14

- G -

G.k.'s 176:14 192:9
G.k 76:20 76:23 116:14
 128:9 128:24 129:22
 130:10 133:15 156:20
 166:15 166:23 168:16
 172:3 195:13 204:19
 207:13 207:15 214:21
 236:5
gain 60:4 167:15
 168:9 168:10 170:11
 173:23 231:21
gained 30:4
gaining 25:2 230:17
 230:20
gains 30:6
gap 43:4 192:21 192:23
Gardner 128:11 128:13
 128:16 146:16 188:5
Garnet 7:5 10:15
Gary 7:7 9:2 37:15
 67:5 69:5 70:2 146:5
 203:14 205:17 211:18
 230:19 241:10
gas 38:24 39:2 137:20
 137:24
gases 87:4 121:3
generalized 132:8
 134:7
generate 118:25
generating 119:2
Generation 81:3
generic 16:15 35:10
 125:3 159:13 159:23
 183:22 224:20
generics 124:15
Genkay 244:8
genomics 118:10
 118:17 120:5 120:11
Gentlemen 231:8
George 7:4
Germans 125:24
Gerry's 193:14 204:12
 212:3 230:16
Gerry 9:21 58:10
 164:10 164:12 187:9
 191:8 192:12 193:24
 196:24 198:25 215:9
 216:18
gets 74:7 107:2 121:15
 205:22 225:25
giving 128:14 161:14
 166:6 207:21 220:24
glad 32:24 37:24 58:17
Glaxo 107:5
Glenn 9:23
global 16:4 128:21
 164:13 176:19
globalized 22:13
GMP 9:23 11:23 14:25
 15:12 15:14 18:6 18:17
 19:20 20:7 21:8 22:7
 24:9 24:10 25:16 26:15
 31:22 35:12 35:21
 37:2 44:6 44:17 45:8
 49:7 50:25 52:5 54:16
 55:16 55:21 56:23

134:5 144:22 152:8
 155:13 155:14 155:16
 157:3 174:9 175:24
 179:6 189:16 189:16
 202:22 204:5 213:18
GMPS 23:25 25:18
 25:24 39:4 56:9 77:7
 156:16 161:23 166:3
goal 27:24 29:24 46:17
 47:9 47:14 48:12 49:4
 50:6 50:23 51:25 52:14
 56:12 70:21 71:22
 72:2 92:14 151:13
 157:18 157:22 169:14
 186:18
goals 20:16 20:21
 20:24 20:25 21:3 26:9
 26:10 27:2 27:5 30:23
 32:12 32:16 38:2 71:25
 150:5 186:22 189:14
 190:9
goes 43:13 43:13 43:18
 55:21 65:6 65:23 78:7
 84:18 106:13 112:7
 139:15 144:14 168:6
 168:18 187:25 193:14
 195:13 204:11 206:15
 231:23 238:21 246:22
Gokeju 9:3
GOLD 7:19 7:19 7:20
 9:2 34:15 35:14 36:2
 36:6 36:12 36:20 58:19
 153:10 153:22 154:4
 154:8 154:21 156:5
 158:16 158:23 159:12
 159:22 245:21 248:8
goods 78:20 80:10
gotten 47:24 61:21
 115:13 211:17
governed 129:23
government 8:20 85:4
 105:3 105:13 117:22
 118:8 120:7 120:10
governments 104:23
GPHA 58:9 148:7
 148:16 149:4 149:20
 151:22
grab 114:23
grams 136:21
grant 180:20 182:12
granted 8:24 159:11
granularity 115:19
granulate 227:19
 227:19
granulated 82:13
granulating 131:25
 138:20 139:7
granulation 89:18
 116:17 131:4 138:24
 228:7
granulators 241:23
grapple 160:18 183:6
 183:15
grappled 62:5
grappling 41:11
greatly 97:25 113:8

Gregg 237:16
group 11:10 25:15
 27:21 29:24 37:18
 45:13 45:22 45:24
 46:2 46:3 46:3 46:15
 47:7 49:19 49:20 51:2
 51:7 51:24 52:10 55:12
 56:21 56:22 58:5 58:24
 61:18 62:9 65:4 67:15
 67:20 68:10 68:13
 68:25 69:12 72:4
 110:8 127:2 127:5
 129:6 129:7 162:10
 169:3 185:11 197:25
 215:4 233:12 233:15
 235:16 237:15
groups 26:25 44:7
 45:8 45:10 45:19 45:20
 45:23 46:8 49:7 55:10
 55:11 57:10 62:7 67:16
 67:19 69:11 127:3
 199:24 200:4 228:5
grow 191:24
grown 34:24 34:24
growth 22:5 38:24
guarantee 102:3
guess 36:22 63:13
 67:10 69:6 75:8 75:14
 75:16 123:25 146:13
 202:18 203:16 211:22
 225:16 230:14 230:19
 240:8
guessing 161:8
guesswork 194:19
guests 9:19
guidance 19:13 29:4
 30:2 31:18 46:24 48:24
 51:9 128:4 148:19
 149:8 149:13 150:3
 151:12 151:16 158:11
 161:9 161:13 161:13
 161:15 161:17 162:16
 162:18 165:2 174:9
 179:6 179:9 179:11
 179:17 179:20 232:23
 240:21 244:14 244:16
 244:17 244:23 245:24
guidances 55:18
guide 191:6
guidelines 131:18
 134:7 134:10 149:22
 245:24
guiding 21:2 30:21
 32:6
gut 223:11
guy 107:8 107:10
 107:12 107:13 166:24
guys 37:25 228:11

- H -

HACCP 24:7
half-day 166:8
hand 8:22 19:23 46:13

46:14 78:9 78:10 78:14
 78:15 81:6 187:25
 200:5
handle 13:10 14:18
 18:24 52:21 56:7
 105:6 188:18
handled 161:7 171:18
 178:21 178:24
handout 234:13
handouts 199:8
hands 31:14 192:15
hang 226:4 226:5
 226:15
hanging 51:3 177:11
haphazard 154:17
 154:17
happen 44:17 53:2
 53:3 141:8 144:5
 145:17 160:10 163:23
 167:18 167:20 187:20
 195:6 195:20 227:23
 233:18
happening 68:24
 117:12 121:9 138:13
 143:2 189:9
happens 117:5 133:25
 139:21 163:25 207:6
 229:23
harbor 158:4
harder 22:19
harm 41:2 41:5 41:6
 41:7 183:24 184:5
 184:6 236:20
harmonization 16:4
 32:6 32:12 56:20 60:12
 104:19 104:20 105:10
 105:12 109:17
harmonize 59:17 66:19
 66:21 104:24 105:5
harmonized 56:12
hate 135:11 216:16
hazard 183:24
head 107:11 126:23
 132:16 162:11 209:20
headed 126:22
heading 47:6
headquarters 55:6
health 21:20 21:21
 28:11 32:14 40:24
 192:5
hears 107:8
heart 33:9 209:19
heavily 60:16
Helen 7:22 10:19 20:19
 26:25 27:3 44:2 58:19
 63:14 64:5 64:7 67:6
 68:25 71:24 93:21
 152:4 170:3 186:22
 230:23
helpful 15:18 16:2
 17:24 159:4 159:9
 236:2
helping 13:18 18:21
 45:4 48:10 57:16 57:25
hesitancy 124:18
hesitant 13:24

hesitations 42:12
heterogeneity 121:6
heterogeneous 121:14
 221:18 241:12
high-risk 29:9 29:10
 52:17 196:19 196:19
highlight 191:16
 191:25
highlighted 69:11
 159:18
highlighting 42:18
highly 52:15 100:14
 132:7 135:19 202:16
 222:5
hire 69:24
hired 247:8
hiring 247:12 247:25
historical 130:4
history 69:9 135:16
 156:15 156:24
hit 105:25 125:11
HIV 135:20
hoc 111:2
holding 151:6 158:2
hole 140:7 140:8
 140:12 140:22 140:25
holes 139:14 140:12
 140:13 140:15 140:17
 140:20 140:21
HOLLENBECK 7:7 7:7
 9:2 37:16 37:22 67:6
 69:6 70:4 70:9 146:6
 186:13 203:15 207:19
 211:20 225:16 225:25
 226:19 226:22 227:24
 234:12 240:8
homogeneity 242:9
 242:9 242:11 242:11
homogeneous 227:16
honed 233:15
honestly 87:21 166:15
hoped 44:22
hopefully 6:9 20:21
 48:19 51:10 92:15
 97:4 199:7
hoping 15:10 15:15
 53:24 106:3 154:23
 177:14
horizon 35:2
Horowitz 18:11 19:17
 19:25 33:5 33:9 33:13
 33:20 33:25 34:15
 34:21 35:18 36:4 36:10
 36:13 37:21 37:24
 38:14 39:15 39:17
 40:6 40:21 59:24 71:18
 73:8 183:18 184:14
 184:18 236:19
hub 249:12
huge 89:25 109:14
 121:21
human 52:5 74:15
 78:22 78:25 80:10
 95:12 95:13 95:25
 97:25 114:6 120:5
 152:9

humongous 122:9
 220:5
humor 75:5
Humphrey 110:18
 112:23
hurdle 76:3 170:17
 219:22 231:25 232:13
hurdles 170:8
hurry 247:2
hydrates 136:12
hydrophobic 230:9
hydroxide 223:7
hypothetical 223:15

- I -

ICH 32:9 56:14 222:8
idea 11:13 11:16 22:3
 111:18 125:9 126:3
 137:9 137:19 143:12
 175:3
ideally 84:9
ideas 6:10 148:14
 148:19 149:12
identically 90:5
identified 18:18 45:25
 51:9 53:13 67:15
 163:13 171:25 187:13
 211:13
identify 28:3 34:4
 48:13 52:10 52:11
 58:3 58:14 186:20
 187:8 199:4 204:23
 211:11 228:6 235:23
identifying 34:10 54:3
 67:17
ignoring 28:15
III 133:17 133:20
imagine 142:19 189:19
 227:11
imbalance 23:10
immediate 222:3
 224:3
impact 9:11 54:25
 117:12 149:25 167:21
 168:20 168:23 168:24
 171:8 172:2 172:16
 175:11 175:15 180:7
 194:17 198:2 213:3
 218:19 225:14 236:25
 242:16
impacting 168:5
 183:14
impacts 170:15
impetus 178:18
implement 14:2 56:9
 60:5 157:17 175:14
 176:18
implementation 48:15
 55:19 60:2 75:19
 149:9 176:11
implemented 55:4
 149:3 150:21 180:6
implementing 27:24

50:10 148:21
implicated 230:11
implications 93:7
 93:8 93:9 109:14
imply 166:25
importance 43:11
 65:21 126:19
importantly 165:7
 167:17
imposed 223:5
impress 42:7
impressed 165:6
 165:7
impression 39:22
 165:4 180:22 181:8
impressive 37:16
improve 31:2 31:23
 33:12 56:19 72:14
 73:19 101:12 148:14
 148:16 156:22 156:25
 170:12 170:18 193:11
 202:19 204:21 216:5
 216:7 216:19 217:2
 217:10 217:20 217:22
 218:4 218:7 218:18
 219:21 220:11 237:4
improved 30:25 33:14
 103:2 163:11 217:4
 217:7 217:24
improvement 46:12
 75:24 76:4 187:25
 190:5 198:14 219:23
 248:6
improvements 46:14
 51:13 54:15 160:3
 216:9
improving 31:4 50:25
 201:23 206:14 207:11
 214:18 216:18 216:21
 216:22
impurities 133:5
 239:5
imputed 9:9
in-process 141:19
 198:23 223:24 226:25
 227:12 228:6 245:16
incentive 74:5 146:14
 196:12 220:12
incentives 144:19
incidental 47:3
included 149:22 200:11
includes 28:2 28:2
 34:11 45:15 78:22
 78:23
incomplete 94:11
 107:17
inconsistencies 158:6
 174:18
inconsistency 154:22
 246:2
incorporate 46:18
 55:8 67:21
Incorporated 9:22
 55:20
incorporating 24:5
increases 140:14

increasing 35:10 91:20
 91:21 126:15 193:25
 216:23
increasingly 22:13
 32:7
incremental 21:9 24:3
 104:16 157:22
independent 105:3
 227:17 228:8
index 221:12 229:17
India 113:15
indicate 65:13
indicator 144:6
individually 169:7
individuals 245:12
 247:8
Industrial 7:5 8:18
 42:14 69:24 87:10
 191:19 247:14
industries 85:4 91:6
 114:22 209:8
industry's 73:4 73:11
 148:10
inevitably 159:20
influence 134:14
informal 51:15
informally 20:3
informed 136:14
infrastructure 42:14
 167:12 173:11 178:5
 178:11
infuse 32:21
ingredient 81:25
 154:15
ingredients 22:16
 184:13
inherent 70:10 91:18
inherently 96:18
 114:3
inhibitor 135:20
initial 64:7 201:18
initially 172:24
initiatives 12:4 15:6
 58:24 69:7 69:8 163:14
 163:17 163:18 164:4
inject 75:5
ink 107:6
innovate 73:20 168:21
 168:25
innovation 26:22 56:14
 75:25 76:4 127:17
 170:20 190:5
innovations 26:14
innovator 224:20
input 6:12 44:25 50:12
 68:7 151:16 151:24
 164:21 174:6 210:21
 232:16 233:4 236:9
inputs 88:21
inside-out 101:15
 104:9 105:2 109:2
insignificant 28:5
insisted 60:3
inspect 102:14 113:18
inspected 113:20
inspection 11:25 25:20

25:23 27:9 27:11 27:20
 28:2 28:23 29:2 30:19
 31:9 31:15 35:5 36:19
 36:24 53:25 59:19
 61:20 64:2 68:21 71:9
 123:22 150:8 150:15
 151:17 152:8 153:11
 153:25 154:13 154:15
 154:20 155:13 155:14
 172:18 178:12 189:18
 189:24 190:6 206:25
inspectional 31:14
 33:17 35:4 37:11 49:5
 54:21 58:23 60:11
 72:18
inspector 49:15 53:22
 64:16 144:14
inspectorate 30:18
 52:14 52:24 53:4 53:10
 53:12 53:19 174:14
inspectors 52:15
 143:13 245:8
inspects 25:15
instability 123:8
instance 203:23
instantaneous 141:21
Institute 13:16 19:11
 110:18 118:8 191:21
institutions 8:19 9:12
 42:7
insurance 40:23
integrated 27:11
 103:19 166:3 169:13
 174:5 174:8 193:18
integration 27:8 27:16
integrity 242:21
intellectual 114:12
intellectually 216:22
intend 214:25
intended 29:22 185:20
 185:22 193:21 193:22
 221:7 221:10 221:11
 238:20 238:21
intensive 59:7 166:7
interact 20:3 54:20
interacting 114:7
interaction 53:4 244:11
interactive 235:15
interchange 6:10
interchangeability
 219:4
interest 8:9 8:11 9:13
 9:16 9:20 10:7 10:11
 70:11 73:11 128:15
interested 72:3 237:19
 238:10
interesting 38:14
interests 8:21 8:23
 9:10 26:7
interfere 32:17 192:7
interim 149:18 174:21
 175:3 198:24
interject 75:11
interlocking 132:9
intermediates 133:4
internal 21:3 26:10

27:2 27:5 27:7 27:21
 27:24 29:23 30:21
 30:22 30:25 31:23
 50:10 54:24 55:11
 55:13 62:25 72:2 72:6
 91:18 150:23 206:7
 209:5 215:24
internally 13:15 15:15
 28:8 40:9 49:12 49:13
 57:7 163:12 234:5
 238:25
International 7:15
 32:6 32:10 32:12 35:15
 35:19 35:21 36:3 56:11
 56:19 59:15 62:21
 66:10 66:17 67:4
 243:12
internationally 56:12
Internet 151:4
interpolate 83:17
interpret 234:25
interpretation 65:21
 80:6 161:22
interpreted 31:19
interpreting 25:23
interrupt 95:8 207:4
intertwined 62:8
intertwines 62:10
intimately 135:2
 135:5
introduce 6:14 6:21
 10:20 45:4 76:21
 182:5 182:22
introduced 124:8
introduction 86:23
 94:21
introductions 76:21
introductory 166:6
intuitive 148:21
invented 86:25
inventory 38:12 38:16
 94:11 96:10
invest 210:8
invested 240:13
investigate 208:11
investigation 156:23
 237:23
investigations 94:11
 208:8 208:10 218:7
 218:9
investigator's 152:12
investigator 31:14
 31:19 161:3 162:4
investigators 29:5
 29:9 30:17 61:19 63:3
 162:12 208:14
investing 168:11
 238:18
investment 181:2
 181:12 181:13 181:16
 216:19
investments 86:20
invisible 107:6
invited 9:19
invoke 112:12
invoking 225:22

involve 8:18 10:5
involvement 10:8
 10:12 59:12 69:9
involves 25:12 25:17
 25:18 25:20 25:21
 60:16 60:16
irrelevant 99:14 102:10
 106:11
IRS 25:4 33:22
isolated 210:18
ISPE 243:12
issued 26:4 50:7 50:11
 155:20 190:23
issues 6:19 7:21 8:15
 8:16 8:17 11:10 11:12
 12:12 15:13 16:14
 17:10 17:24 17:25
 18:18 19:4 19:6 31:8
 31:9 43:22 48:10 50:15
 50:25 56:23 58:4 58:14
 58:14 61:18 62:3 63:12
 75:16 98:18 98:18
 101:14 101:23 130:11
 134:5 150:20 150:22
 158:14 162:11 165:18
 165:20 170:11 177:6
 183:19 233:7 239:10
 241:17 242:3
itching 120:16
item 158:7
itemized 37:17
items 32:5 149:16
 218:20
IV 206:11

- J -

Janet 93:20 183:9
Joe 7:14 47:5 154:21
 154:23 156:7 156:10
 163:3 164:21 165:4
 207:5 243:2
John 44:22
join 44:22
joined 192:20
joint 59:16
jointly 72:23
Joseph 9:7
journey 191:11
judging 194:10
Judy's 203:24
Judy 6:3 6:16 17:22
 42:11 58:16 76:23
 93:2 200:6 221:22
July 56:14
June 17:6
Juran 103:13 110:16
jurisdiction 15:21
justifiably 240:12
justification 198:16
 213:15
justified 91:16 118:16
 161:6
justify 74:3 245:6

- K -

Karen 7:12 8:8 10:18
keeping 235:23
Ken 9:19 152:2 160:15
 164:8
Kenneth 148:5
Kentucky 7:11
key 28:5 56:23 95:22
 122:16 131:15 141:18
 167:7 167:19 170:23
 171:17 183:23 189:13
 208:2 208:17 233:11
kidding 211:19
kinds 21:24 81:17
 110:15 119:17 137:5
kinetics 132:10
know-how 132:13
 247:11
knowing 117:10 125:10
 159:7 225:24 238:19
 238:20 238:20
knowledges 110:15
known 29:18 30:18
 83:7 229:21 229:22
 238:7
knows 65:14

- L -

lab 85:17 85:23 95:7
label 240:5
Laboratories 6:24
Labs 10:4
laid 37:18 70:21 85:9
 105:24 120:14
landscape 35:7
language 49:13 105:8
 146:9 197:16
Larry 145:9
laser 139:14 140:3
 140:23 141:2
lastly 16:6
latest 26:13 90:7
Latin 78:9
Laughter 7:25 11:4
 33:24 51:5 70:8 70:15
 77:12 123:13 154:25
 164:23 184:19 187:18
 190:18 192:16 209:13
 209:21 211:6 221:6
 223:13 226:21 229:3
 232:11 248:11
launch 162:16
launched 135:21
lauryl 230:8
Lavin 9:19 58:9 148:5
 148:6 152:11 152:17
 152:21 153:4 153:7
 153:10 153:17 153:23
 154:7 154:11 157:14

158:17 158:21 158:25
 159:14 160:9 160:23
 161:16 161:22 162:3
 162:14 162:21 164:9
law 60:17 61:22
laws 79:12 80:8
laying 86:5 104:6
LAYOFF 6:25 6:25
 9:2 38:10 39:12 39:16
 60:14 62:24 120:21
 121:13 122:24 123:10
 145:23 152:3 152:15
 152:19 152:25 153:5
 153:8 162:22 204:20
 205:9 205:14 214:21
 216:16 217:8 217:14
 217:22 218:12 218:15
 221:16 221:20 223:10
 223:15 226:2 241:9
 242:8
lays 96:6 100:7
leading 120:13
leap 87:23
learn 55:7 83:9 84:12
 85:21 85:22 85:22
 85:23 87:2 105:15
 123:11 137:5 174:24
 224:12 248:5
learners 121:24
learning 30:2 84:10
 84:15 84:17 84:19
 84:22 84:24 85:3 85:16
 85:16 85:19 85:20
 86:19 87:11 90:23
 95:19 95:19 104:7
 104:8 105:15 105:16
 105:17 105:17 105:25
 106:2 106:5 106:6
 126:7 126:21 126:25
 126:25 127:9 127:20
 206:11
learnings 85:18 115:2
leaving 42:15
lecture 220:24
leg 122:13
legal 40:24
legislative 34:23 60:19
legitimately 223:18
less-developed 7:2
 60:7
Lester 93:19
Let's 77:13 77:22 79:17
 80:18 81:8 81:10 88:4
 89:4 89:10 91:12 92:23
 93:10 94:6 97:23
 109:2 109:5 115:12
 118:24 125:16 129:17
 131:18 167:5 167:25
 169:16 181:12 208:7
 224:3 231:25
letting 194:13 200:18
levels 12:18 40:9 81:12
 81:13 81:15 86:11
 91:8 91:19 91:20 91:21
 92:10 92:11 92:12
 94:11 96:10 97:10

99:23 110:9 110:12
 110:20 114:13 114:17
 115:7 115:9 123:4
 179:15 204:25 245:6
leverage 58:19 60:10
 85:6 94:18 206:15
Lexington 128:19
liability 92:7
library 78:3 79:6 80:3
 80:4
lies 210:16
LIF 95:23 96:16
life 83:5 84:5 87:20
 94:13 97:25 98:2 98:4
 121:25 126:2 173:22
 174:3 174:20 174:23
 175:2 179:20 179:22
 198:25 204:13 214:25
 215:4 215:10 225:9
 225:12 239:17 239:20
 239:20 239:24 239:25
 240:4
lifetime 134:18
lifted 81:24
light 77:14 245:17
Likewise 140:3 140:8
 140:21
Lilly 9:24
limit 214:14 218:10
limited 72:23 73:17
limiting 222:16 222:19
 222:24 222:25
limits 201:3 201:4
 201:5 202:16 202:21
 206:6 206:24 206:25
 213:5 239:5
line-by 64:2
lines 75:6
link 64:14 170:2
linkage 64:18
linked 198:20 198:21
linking 191:14
liquid 132:25
liquids 87:4 96:3
 130:21
listed 97:21 234:4
 236:10
listen 145:20
listened 163:12
listening 145:2 189:12
listing 64:3
liter 139:2 139:2
 139:5
Literally 224:25
literature 40:22 130:23
litigation 40:24
lives 119:23
logical 112:10 145:14
 220:5 222:20
looks 89:11 90:19
 151:22
loop 63:3 92:3
lose 211:3
losing 32:14 226:17
loss 184:12 184:13
 184:14 236:17 236:20

lots 144:23 197:3
 218:17
loved 79:15
low-dose 218:24
low-risk 207:14
ludicrous 225:23
lumped 174:6
lunch 128:9 148:5
luxury 79:7 176:4
 246:24
lyo 137:20
lyophilization 137:19

- M -

machines 244:7
Macro 114:5
magnesium 229:12
 229:15 229:20 230:4
 230:9 230:11
main 16:23 16:24
 17:9 26:14 32:15 32:15
 48:16 71:20 189:8
mainly 11:19
maintaining 42:8
 244:24
major 21:2 21:7 21:16
 23:13 27:24 131:20
 159:21 219:24
majority 52:16
manage 146:18 184:8
 196:25 225:15
managed 153:18
 211:7
manager 155:8 155:9
managers 156:14
managing 122:12
mandates 34:23
mandatory 153:13
 156:12
manual 95:12 121:23
manufacture 38:25
 43:14 120:22 195:10
 215:18 237:9
manufactured 22:18
manufacturer 201:12
 201:13
manus 78:9
map 90:5 91:6
mapped 91:17
maps 116:4
margin 237:10 237:11
Mark 93:20 155:22
market 38:20 84:11
 84:23 108:7 125:2
 125:23 135:18 135:25
 136:2 170:6 204:10
 217:12
marketing 106:16
 106:20 107:9 118:19
marketplace 135:13
Maryland 7:9 69:19
 224:7 224:8 224:17
 244:9

mass 42:16 125:16
 125:18
Massachusetts 128:19
mastery 79:13
material 43:24 77:18
 78:23 88:12 88:16
 119:3 119:7 134:16
 136:20 144:10 238:17
 238:22
materials 78:19 78:20
 80:9 122:10 129:18
 129:19 141:10 141:13
 143:8 227:13
matters 8:24 9:8 10:17
 72:24 73:14 210:14
maturity 111:17 112:23
 113:10 113:11 115:24
maximize 73:4 73:5
Mazda 212:16
Mcclellan 93:20
meaningful 185:24
 187:3 223:4
meant 82:3 154:23
measure 80:17 89:8
 91:24 91:25 96:14
 96:18 103:22 103:24
 103:24 114:4 114:19
 123:11 138:24 141:21
 149:21 208:24 214:14
 214:15 249:3
measured 94:13 114:3
measurement 82:11
 89:23 95:6 96:22 96:23
 116:4 116:9 117:5
 117:6 119:11
measurements 96:23
 96:25 114:16 116:21
 119:8 131:9
measuring 101:21
 104:3 116:6 119:14
 161:25 161:25
mechanical 212:15
mechanism 49:4 62:11
 83:15 94:24 222:14
 222:23 229:22
mechanisms 83:12
 92:3 247:24
mechanistic 83:12
 194:16 195:5 213:2
 221:23 222:23 230:15
 245:15
medical 38:24 39:2
medium 108:6
meeting 6:8 8:12 8:14
 8:15 10:25 12:12 14:19
 59:16 77:16 86:16
 93:17 156:16 158:18
 158:19 158:22 158:24
 159:2 159:8 159:10
 159:13 189:5 197:6
 198:3 199:9 203:19
 212:19 216:3 220:23
 235:23 249:20 249:20
meetings 56:2 58:3
 151:7 158:20 186:21
 188:20 197:15 233:11

meets 202:4 225:9
Mellon 112:21 113:5
 114:13
membership 199:15
memory 146:12
mentality 124:9
mention 16:22 58:21
 58:21 62:7
mentioned 14:24 15:12
 25:25 29:11 35:6 37:19
 50:22 56:14 57:8 57:17
 58:25 67:25 110:13
 110:20 122:6 160:15
 162:9 170:3 172:3
 198:25 236:6 236:6
Merck 107:4 128:22
 128:25 132:18 135:8
merger 15:19 212:25
messages 107:7
metoprolol 224:15
metric 234:2
metrics 54:25 55:3
Microbiology 17:6
Midwest 43:2
Migliaccio 9:21 58:10
 164:11 164:12 164:13
 164:24 180:25 181:6
 181:10 182:7 182:19
 184:20
Mike 63:23
mikes 6:22
milestone 47:23
mimicked 87:14
mind 43:23 45:10
 110:7 111:14 190:15
 191:11 199:22 212:7
 235:23 238:17 244:21
mine 202:9
minimal 101:4 213:17
 213:18 241:24
minimize 239:19
minimizing 214:5
minimum 90:6 155:21
 204:16
minor 131:20 228:4
 228:16
minus 138:22 139:25
 241:14 241:15
minute 41:19 49:21
misinterpreted 31:17
misleading 154:9
 180:17
missed 76:21 140:17
 199:4
missing 107:17 118:22
 122:21 215:13
mission 26:20 26:20
misunderstood 182:20
MIT'S 76:24
MIT 80:4 86:24 86:24
 90:25 96:17 116:16
 117:8 118:2 118:3
 118:3
mitigate 148:25 173:25
 179:4 196:16 196:23
mitigated 9:18

mitigating 193:20
 198:6 198:20
mitigation 172:21
 179:3 193:22 198:16
mix 89:17 138:19
 138:21 138:21
mixer 138:25 219:5
 223:21
mixers 241:23
mixing 116:17 230:3
mode 188:13 198:19
model 28:24 75:25
 76:5 111:17 112:22
 112:23 113:10 113:11
 114:8 115:24 131:10
 167:4 168:14 168:18
 169:5 169:15 174:10
 174:12 180:16 186:8
 186:9 203:7 224:18
 236:4 239:15 239:21
 244:18 245:13 248:6
modeling 245:14
 245:18
models 83:14 188:15
 197:21 197:22 210:15
 239:21
moderate 28:14 172:8
moderators 166:11
modern 93:25 103:12
 103:17 109:16
modify 139:23
modifying 190:11
moisture 131:6
molecules 115:16
money 84:20 117:21
 117:21 117:22 118:2
 118:3 118:5 118:9
 118:9
monitor 33:12 36:18
 132:24 137:21 138:11
 142:8
monitoring 174:23
monograph 123:19
monolithic 60:17
months 32:22 40:15
 51:10 98:2 157:6
 240:2 243:17
moratorium 32:20
morning's 146:24
 177:15
motion 115:16
motivated 59:25
motivation 110:21
 110:24
mouth 221:4
moves 44:10
MRA 59:25 60:3 60:6
MS 7:22 10:21 11:5
 44:3 51:6 61:7 62:6
 65:2 66:24 67:14 69:15
 70:13 71:14 159:24
multi 93:5
multifactorial 146:19
 212:18
multiple 227:2
multiplied 184:13

multitude 204:24
music 42:4
mutual 58:21 59:5
 59:22 66:20

- N -

name 6:3 76:23 111:3
 128:16
narrow 54:5 55:23
 129:11 163:2 172:13
 172:17 183:13 202:21
 218:21 221:12 229:17
narrower 202:2 215:6
narrowly 203:10
National 42:18 118:7
 137:3
nations 60:4
natural 73:9 132:14
naturally 24:15
NDA 84:8 98:24 125:15
 138:21 142:14 142:24
 171:19 171:22 172:4
 172:4
necessarily 92:6
 101:11 109:23 114:6
 120:4 128:25 159:11
 160:23 207:20 238:6
necessity 149:19
negate 229:25
negative 149:24 182:17
negotiations 143:18
 206:6
neutral 114:14 249:10
neutralizing 139:22
news 84:17 84:19
Newton 84:2 111:25
Newtonian 80:25
nice 10:23 37:17 39:21
 114:18 120:2 127:18
 209:15 232:4
nicely 114:17 124:5
 209:23
nine 224:21
NIR 94:23 95:24
no-no 125:21
nobody 87:5 91:11
 111:5
nods 238:10
nonexistent 121:23
nonissue 242:7
noodles 139:17
normalization 35:17
normalize 138:25
noted 10:8
Notice 88:12 189:15
notion 110:7
notions 185:6
Novartis 118:2
novel 150:12 153:24
nowadays 136:6
Nozer 7:3 9:7 39:18
 60:22 70:16 180:13
 209:9 210:20 211:5

236:6
NSA 200:23
nuances 162:8
numerous 17:10 18:16
 57:15

- O -

o'clock 207:3
objections 111:20
objective 191:13
 199:22 234:16 249:9
objectives 21:3 26:24
 32:16 38:8 60:13
 186:23 189:14 190:3
 190:9 237:3
observation 63:18
 63:20 64:3 64:7 64:12
 65:6 65:8 65:9 65:13
 65:15 152:12 152:14
observations 31:14
 31:16 31:18 49:5 49:9
 49:14 49:24 50:2 61:19
 62:12 62:13 62:17
 63:15 65:20 65:20
 65:25 66:3
obstacles 111:20
obtained 9:4
occasions 129:8
occur 134:17 158:20
 229:17 229:18
occurred 111:21
 111:22 145:7 164:17
occurring 188:25
occurs 172:15
October 14:20
of-trend 218:6
Office 7:23 8:5 9:6
 11:22 44:15 44:15
 44:21 45:2 45:2 56:4
 143:12 143:13 150:17
officer 128:17
offices 34:6
official 31:20 38:12
OGD 159:9 159:25
oil 141:13
on-line-able 95:23
 96:5 96:18
on-line 95:22 141:21
once-in-a-lifetime
 165:15
onerous 228:24
ongoing 19:12
onto 116:5 137:16
 137:20 226:4
OOS 179:8 218:5
open-minded 157:11
openly 165:24
opens 244:20
operate 40:8
operating 30:10 243:20
 243:22
operational 80:13
operationalize 166:19

166:21
operations 82:10 89:16
 89:23 95:12 95:14
 119:2 129:22 129:23
 132:8 164:14 168:10
 178:7 223:22 224:24
 227:2 245:13
opinion 23:10 77:3
 86:7 86:10 86:14 92:25
 93:6 99:3 114:4 121:18
 157:7 158:17 162:6
 163:11 163:14
opportunities 20:13
 21:16 23:12 24:11
 24:19 25:6 30:3 30:14
 32:2 48:13 60:10 79:16
 188:3
opportunity 13:4 23:17
 32:25 33:2 50:18 62:16
 66:11 73:3 78:17
 248:14
opposed 204:10 204:17
opposite 205:12
OPS 11:7 17:11
opted 156:14
optimizing 204:9
 204:14
option 155:8 219:21
options 247:6
ORA 63:24 63:24
oral 130:18
orals 177:23
orange 10:25 11:2
organic 129:20
organization 44:21
 60:25 82:16 106:19
 106:19 106:20 108:4
 110:24 111:3 111:5
 111:8 165:8 182:14
organizational 127:12
organizations 59:18
 84:6 86:10 110:25
 127:5 191:22
Organized 79:14
organizers 128:14
original 136:23 172:4
 175:3 175:6
originally 57:24
OSHA 25:3
other's 59:8
otherwise 100:12
 122:2 226:15 228:22
 248:23
ought 33:16 178:14
 228:5
ourselves 6:14 65:3
 67:3 81:6 87:22 175:10
out-of-a-box 145:11
out-of-spec 218:5
outcome 64:2 120:2
 211:24 216:4 217:2
 217:4 217:7 217:19
outcomes 204:21
outline 200:13
outlined 186:22 200:7
outlining 150:4

outlying 201:4
outputs 88:22
outset 120:23 121:4
 153:13
outside-in 101:16
 102:17 102:21
outstanding 135:8
outstripped 179:15
overall 68:18 103:20
 108:3 108:4 163:5
overcoated 139:13
overcome 106:6 230:8
overhaul 21:8
overlap 20:14 30:22
 139:4 139:5 166:9
 166:12 166:17 219:12
overlay 168:4 168:15
overpass 214:16
overseas 36:8
oversee 22:21
overseeing 24:10
oversight 20:9 21:6
 22:8 23:11 34:24 35:7
 39:11 60:11 184:4
oversimplification
 34:8
oversimplified 106:18
overview 19:20 40:8
overwhelming 85:10

- P -

p.m 147:2 147:3
 148:2 249:21
packet 199:8 199:9
 199:13
page 30:10 234:13
 234:18 234:19 235:10
 235:21 235:22
PAI 143:16 156:9
paint 92:22 167:3
 221:2 221:8
PAIS 154:10 156:18
paper 47:3 54:10 82:24
 83:4 95:13 95:25 98:11
 158:5 158:14 248:18
paradigm 77:24 90:24
 127:10 127:18 127:20
 183:2 227:8 228:19
parallel 101:17 111:19
 136:10
parallelism 26:10
parallels 114:22
parameters 28:3 29:8
 30:12 72:11 131:3
 131:10 131:11 131:15
 134:14 137:14 137:23
 139:20 141:18 141:23
 142:7 143:9 144:9
 144:13 171:25 242:2
 242:15
paramount 151:16
 191:13
parent 38:18

parenteral 63:9
Parklawn 9:6
participants 10:7 10:8
 10:10
participate 8:25
participated 123:18
participation 16:20
 211:8
particle 131:23
parties 74:21
partners 59:15
PAT-BASED 246:20
Pat 7:10 14:24 15:7
 19:5 30:20 42:25 43:7
 63:5 68:17 68:20 94:18
 94:19 95:4 95:20 96:13
 116:5 116:20 121:8
 121:16 128:2 141:19
 157:5 157:6 157:8
 157:15 157:21 157:22
 158:7 160:15 162:8
 174:10 181:13 187:22
 197:3 201:20 203:3
 205:10 219:17 232:17
 232:20 242:6 242:8
 242:14 242:22 246:17
 248:4
path 38:6 38:7 107:12
 109:13 126:9 126:17
 176:16
paths 204:23
pathway 143:18
patient 43:13 75:11
 97:24 101:18 170:23
 191:13 203:10 214:22
 216:22 220:7 220:8
patients 191:11 191:12
 204:24
Patrick 126:6
pays 117:18
PD 53:10
PDUFA 23:7 35:6
 35:6 36:13
PECK 7:5 7:5 9:3 10:15
 10:16 42:25 218:20
 242:22 245:12
peer-review 247:21
penalties 97:12
penetrate 139:16
perceive 237:25
perceived 151:7 237:21
 238:3
percent 98:20 131:21
 131:23 131:24 132:22
 139:25 156:12 158:25
 161:3 162:25 216:2
 216:12 221:4 221:9
 229:15 230:7 239:8
 239:9 241:14 241:15
 241:24 242:12
percentage 34:18
 229:13
percentages 228:3
perception 128:3
perceptions 126:24
perfect 209:4

performance 80:17
 89:23 90:8 90:8 95:5
 95:7 101:20 103:2
 103:4 103:9 103:11
 116:4 116:7 194:5
 194:18 196:8 213:4
 213:6 226:13 227:13
 234:20 242:15 242:16
performed 150:8
permeability 212:2
permit 132:12
permits 8:25
permitted 245:25
 245:25
personally 118:6
 165:23
perspective 17:9 44:5
 47:14 58:7 58:8 58:9
 58:10 61:24 67:10
 68:17 69:6 69:13 70:25
 77:2 77:4 77:20 152:20
 160:15 160:15 160:17
 163:5 164:15 164:24
 182:2 185:18 188:8
 193:24 195:19 199:18
 212:12 213:16 213:19
 224:3 228:20 232:8
 234:7 234:9 244:13
 245:3 246:25
perspectives 209:18
 232:3
pertain 28:21 30:16
 31:3
pertains 33:21
Pfizer 9:22 107:4
 164:14 173:15
Ph.d 86:24 142:22
 244:8
pharmaceuticals 21:19
 23:11 27:14 113:24
 114:2 114:2 128:18
 186:3
pharmaceutics 43:2
 43:8 43:11 128:22
 171:24 231:15
pharmacogenetics
 203:9
pharmacogenomics
 203:8 204:22
pharmacological
 216:4 216:6 217:19
pharmacologically
 216:12 217:18
Pharmacology 17:2
 17:4
Pharmacy 7:6 41:25
 42:14 42:20 69:25
 87:8 87:10 87:12
 191:19 247:14
phase 30:4 133:17
 133:19 206:11
phenomena 132:10
 132:14
phenomenological
 131:9
phenozerator 223:22

PHILLIPS 7:14 7:14
 9:7 154:24 156:6
 163:4 234:18 234:24
 235:9 243:3
philosophical 111:25
philosophy 146:8
phony 34:7
phrase 31:13 79:3
 129:8
Phrma 9:22 58:10
 164:14 164:24 169:2
physical 97:24 122:11
physics 95:25 114:5
pick 111:3 120:18
 146:14 219:5
picture 92:22 180:16
 180:18
pictures 81:8 91:9
 92:11 114:7
pieces 69:2 71:21
 83:14 87:10 94:2
 114:15 126:11 242:23
 249:5 249:12
pillars 94:2
pilot 51:11 85:17 85:23
 86:4 87:13
pink 123:18
pivotal 226:3 226:5
 226:9 226:11 226:14
 226:23 238:18
places 53:24 111:8
plagued 111:25
planet 96:12 96:13
 208:4
plant 99:15
plants 87:13 99:16
 108:24 109:6
plate 163:20
plateau 168:7
play 21:20 21:20
played 158:15
Please 33:5 76:14
 184:9
pleasure 110:17
plenty 23:16 186:15
plug 223:23 227:2
plus/minus 241:24
plus 138:22 139:25
 195:16 209:17 241:14
 241:15
pointed 41:21 229:2
 230:23
pointing 41:12
pole 127:4
policies 50:9 50:23
 150:23 191:4 195:21
polymer 139:12 139:16
 139:21
polymorph 135:15
 135:24
polymorphs 136:5
 136:12
poorly 121:5 143:25
 143:25
population 220:8
 238:21

populations 203:10
porosity 227:20
portion 150:19 158:4
 171:12 171:14 171:15
pose 187:6
posed 29:15 29:21
 197:10 199:24
poses 246:9
positioned 124:5
positioning 157:4
possibly 205:6
post-approval 35:12
 75:17 134:23 144:12
 203:22
post-change 239:21
post-process 204:2
 226:23
poster 135:11
potential 9:12 9:15
 9:17 72:9 171:8 233:13
powders 116:17 130:21
 138:19
powerful 132:12
PQRI/FDA 59:16
PQRI 77:16 86:16
 129:6 130:9 145:8
 145:9 145:10 164:17
practice 77:9 77:10
 78:11 176:19 208:21
practiced 185:18
 192:22
practices 99:20 99:21
 149:11 157:12 208:5
practicing 166:21
 166:23
pragmatic 122:7
 193:23
pre-anda 151:6 158:20
 158:22 158:24 159:2
 159:12
pre 158:17 158:18
 239:21
preamble 46:25
preapproval 35:5
 35:11 35:21 35:24
 36:11 36:16 36:19
 130:7 150:7 150:10
 153:11 153:12 153:20
 154:12 154:12 154:14
 154:19 155:4 155:8
 155:9 155:11 155:17
 155:25 156:13 156:14
 176:11 176:13 177:10
 178:9 178:11
preapprovals 35:14
 156:12
precise 112:2
preclude 8:13 202:9
predict 83:15 83:16
 131:10 145:19 167:17
 167:20 168:3 224:12
 224:18 224:21 224:22
predictability 177:5
predictive 72:11
 132:12
preeminent 212:6

prefer 71:7
preliminary 236:22
 237:19
prepare 95:10 150:3
 187:12 211:13
prepared 210:8
prerequisites 169:5
 169:13
presence 150:14
presentation 19:17
 19:18 39:21 40:7 73:24
 123:14 129:14 145:6
 145:21 174:19 174:21
 180:11 186:12 188:11
 188:11 189:2 192:9
 193:14 199:15 209:16
 239:14
presentations 18:23
 75:22 188:24 189:4
 189:12
presented 149:12
 159:19 188:12 197:5
 235:12
presenters 148:4
presently 130:24
preserve 242:20
President 10:4 106:25
 107:2 107:4 107:24
 128:21 164:13
presume 80:25 99:18
 99:19
presumes 83:21
pretty 139:11 153:18
 155:7 157:16 157:18
 158:8 241:20
prevent 104:10 196:16
 196:23 232:7 237:24
prevention 100:3
 102:2 103:2
prevents 126:20
previous 10:12 69:9
 198:12
primarily 7:18 34:11
 226:24
Primary 27:5 99:24
 122:8
principle 220:19
 222:14 243:20
principles-driven
 244:23
principles 15:22 21:2
 30:22 32:6 32:21 46:18
 54:21 72:5 79:12 80:8
 83:19 83:19 85:5 85:12
 113:23 117:10 123:9
 129:24 130:18 144:11
 150:9 157:9 161:18
 161:19 169:11 172:10
 185:10 185:12 193:20
 243:19 244:17 245:11
printings 123:20
prior 48:12 48:15
 75:14 75:18 76:7
 144:21 149:9 166:4
 175:8 177:19 180:2
 182:11 182:23 198:14

210:2 230:24 231:4
priorities 87:7 118:20
 197:14
prioritization 186:20
prioritize 14:21 18:14
 28:7 28:25 57:20
 184:8 187:9 211:11
priority 118:17 118:18
 118:20 119:21 120:11
 120:12
private 241:2
probabilities 185:8
probability 104:15
 111:11 111:12 126:15
 127:15 183:23 184:13
 210:4
proceduralize 158:18
proceduralized 151:7
procedure 62:25
 158:22 159:10 160:10
procedures 50:9 50:24
 50:25 151:13 158:17
proceed 237:24 238:2
proceeding 152:24
Proceedings 137:3
processes 28:4 30:11
 47:11 49:11 74:3 74:6
 82:24 84:6 88:11 92:14
 92:14 94:9 96:25 99:10
 105:20 115:25 116:24
 126:19 129:21 132:8
 133:9 134:13 137:8
 141:5 142:23 142:25
 143:8 143:24 144:21
 159:25 165:16 167:16
 167:18 168:9 170:13
 172:8 182:15 182:16
 190:21 193:11 193:12
 194:6 194:7 206:14
 207:11 213:12 225:4
 240:13
processing 19:2 19:7
 87:3 132:20 132:22
 136:10 230:17 242:24
 245:18
produce 139:14
produces 133:4 138:9
 139:8
producing 196:16
 216:13
productive 6:10
profession 191:18
professional 9:20
Professor 7:5 7:8 7:10
profile 84:14 155:22
 155:23
profiles 153:21
profitable 100:15
project 224:7 243:16
projects 18:15 20:18
 20:20 57:4
promise 235:19
promptly 76:15 135:25
prone 215:21
proper 49:4
properties 120:25

prophecy 208:22
proportion 33:8
proposal 232:16
proposals 200:2
proposed 179:19
 199:18 199:21
proposing 168:16
proposition 108:11
protease 135:20
protecting 151:14
protection 32:14
 192:5
protocol 48:23 131:2
 145:15 187:24 188:2
 188:7 231:2 240:24
protocols 12:24 12:25
 29:13 130:10 130:12
 134:10 134:15 143:15
prove 227:5
proved 60:2
proven 235:13
provides 62:24 168:18
 192:19 196:11 214:4
providing 30:14 148:10
 148:18 150:16 151:9
 151:12 151:14
prudent 9:12
public-spirited 73:13
publication 130:15
 137:2
publicize 65:14
publicly 12:13 62:15
published 123:19
 130:23 149:22
Publishing 151:4
pulled 129:15 135:25
pulling 131:19
pulse 140:4
Purdue 7:6 68:23
pure 151:14
purely 131:20
purifying 216:25
purposes 40:7 97:20
 237:5
pursue 15:10
puts 85:10 106:25
putting 38:21 51:9
 88:19 108:2 108:13
 118:3 120:24 137:20
 161:9 230:20 248:18
pyramid 83:22 84:10
 84:13 85:11 90:12
 90:13 92:15 92:20
 95:17 97:5 97:10 97:13
 98:17 98:18 98:19
 99:9 99:14 99:18
 100:10 100:11 100:13
 100:17 100:18 101:13
 102:8 102:25 108:5
 108:15 108:18 108:20
 108:23 108:25 109:3
 115:21 122:18 124:4
 124:7 124:12 126:3
 128:3 205:25 206:2
 230:16
pyramids 166:23

166:24 166:25 201:14

- Q -

Q6a 222:8
QC/QA 95:7
qualifications 55:3
quantifiability 114:21
quantifiable 112:13
 115:22
quantification 112:11
 114:13
quantify 112:9 112:10
 116:2 184:7
quantifying 114:17
quantitatively 132:11
quantity 97:25 98:4
questions 13:2 15:13
 15:14 15:17 15:22
 15:25 16:18 18:8 18:19
 20:4 32:24 33:3 41:11
 41:16 48:25 49:9 49:10
 49:23 51:19 58:17
 58:18 61:10 69:4
 109:25 110:5 111:2
 117:15 121:16 145:3
 146:21 152:2 152:4
 159:5 159:7 160:6
 180:12 180:14 185:14
 195:4 199:24 200:2
 222:5 233:4 238:3
 243:10
quick 44:7
quickly 16:22 124:10
 133:15 210:14 241:20
 247:7
quiet 200:17 231:9
quote 132:5

- R -

R&d 106:18 107:9
 107:11 118:18 127:3
 128:22 132:17 195:9
 195:18
radical 38:4
raise 31:8 32:4
raised 110:7 212:13
 245:22
Raju 9:3 58:8 76:20
 76:23 76:23 77:13
 110:11 110:14 112:17
 117:14 120:19 121:10
 121:18 122:16 123:4
 126:6 128:10 156:21
 205:16 206:21 206:24
 248:15
ramification 149:3
ramp 247:6
randomly 246:21
ranges 138:10 138:11
 146:10 146:12

rapidly 222:7
ratcheting 204:18
 204:20
rate-limiting 195:3
rated 110:25
rating 112:25 113:8
ratio 95:16
rationale 143:7 176:8
 217:25 232:6
ratios 101:19 101:20
raw 134:16 141:10
reach 155:9
reaching 202:16
react 131:16 177:9
 184:9
reacted 177:8
readily 170:9
real-time 195:11
 195:17
realistic 181:22
realities 79:13
reality 176:17
realize 13:25 19:11
 36:12 43:10 44:11
 47:5 69:16 74:21
 168:12
realized 188:3
realizing 162:8
realm 162:8
reasonable 98:6 226:12
 242:12
reasonably 24:18
 181:11
reasons 19:23 48:16
 52:20 73:13 87:23
 90:15 92:7 92:7 93:11
 193:2 218:4 218:17
 219:18 237:3
rebuilt 23:24
recall 68:19 123:16
 146:7 215:17 229:12
 229:13
recalls 100:5
received 61:4 175:25
Recess 76:16 211:2
recessed 147:3 249:22
recite 9:12
recognition 58:21
 59:5 59:22 66:21 95:24
recognize 40:9 57:22
 112:15 190:4 191:23
 195:21 230:5 244:15
 245:9 246:15
recognized 196:23
recognizing 111:19
 193:3 193:7
recommend 211:12
recommendations
 17:16 17:18 56:18
 187:11 199:21 200:3
recommending 180:9
reconvene 147:3
 210:25 249:22
records 29:18 47:3
redefining 197:19
redo 226:11

reduce 76:7 180:22
 181:19 217:23 217:23
 218:8 237:24 238:2
reduced 181:6 217:24
 218:11 218:12
reduces 142:11
reducing 216:23 217:25
reduction 34:16 41:7
 144:21 168:11 181:11
reductions 236:24
redundancy 193:25
reemphasize 42:20
 181:21
reestablishes 227:20
refer 116:14
referred 71:24 112:23
 131:7 220:22
referring 117:8 226:22
reflect 110:6 200:20
reflected 92:21 240:4
reflecting 196:24
 221:23 228:9 240:10
reflection 145:16
reflects 91:10 199:16
regard 37:7 74:10
 123:21 160:22 186:2
 214:11 239:2
regarded 203:20
regarding 17:10 148:8
regardless 140:9
 154:15 182:23
region 137:17
regulate 27:14 49:12
 194:11
regulated 10:2 17:11
 73:10 86:18 94:25
 97:12 104:12 106:23
 192:13
regulating 29:18
regulation 16:17 21:15
 24:4 27:17 29:25 32:20
 35:8 41:6 45:17 75:12
 165:2 192:5 193:19
regulations 21:9 24:5
 24:9 24:10 25:16 46:22
 55:15 55:16 75:9
regulator 73:10 86:17
 94:25 95:21 97:11
 114:23 206:16
regulators 87:15 87:19
reinforcing 119:22
reinvent 210:17
reiterate 190:2
relate 20:20 27:2
 194:25 194:25 226:13
related 22:10 29:12
 35:9 130:13 179:6
 207:23 222:16
relates 196:5 226:8
 227:13
relating 245:16
relationship 9:20 16:23
 52:17 112:2 188:21
 222:10
relationships 130:5
 213:13

relative 91:7 118:19
126:19 127:4 158:7
203:18
releasable 64:22
151:2
release 139:24 140:5
140:9 140:14 140:25
203:21 214:24 215:2
215:18 215:20 219:12
222:3 224:4
released 64:21 153:5
226:25
relevance 223:8
relevant 50:15 57:25
94:5 94:6 116:6
reliability 144:7 212:17
reliable 215:19
relief 207:13 243:7
relieve 58:23
relook 43:13
remain 188:3
remainder 200:8
remains 64:4
remark 204:12
remarkably 202:14
remind 210:22
remove 65:16
removed 65:10 112:6
125:19
repack 38:25
repackers 38:24
repeat 77:17 192:4
repeatably 123:2
repeated 154:10
repeatedly 123:2
153:25
replace 212:5 223:21
reporting 198:17
reports 9:23 10:3
142:17 149:23 149:23
149:25 165:5 199:10
repository 240:11
represent 128:16
164:20
representative 10:2
63:23 129:6
representatives 165:10
representing 128:24
164:14
represents 197:7
reproducible 215:19
reputation 61:4 61:11
request 9:5 151:8
requesting 149:5
151:6
requests 150:24 151:2
require 9:8 161:23
175:8 205:9 232:25
requirement 150:4
203:3 221:10
requirements 21:11
29:15 29:20 29:22
66:17 66:17 66:22
144:22 148:10 159:6
179:25 192:8 203:24
246:4

requires 69:10
researched 56:25
resemblance 129:11
residual 137:20 137:24
resolution 31:8 49:20
50:22 51:11 62:10
62:24 63:2 65:4 65:7
68:3 68:5 150:20
152:15 176:21 176:22
177:13 248:10
resolve 32:4 158:13
165:20
resolved 233:2
resolving 50:24
resounding 132:4
resource-intensive
59:10
resource 16:6 59:6
59:11 59:23 60:5
150:6
resources 16:10 22:3
22:12 23:6 23:8 25:7
28:9 28:10 28:12 28:23
33:17 33:18 35:4 36:17
39:5 39:6 39:9 48:16
52:3 52:9 58:20 59:9
70:23 72:14 72:18
72:23 73:17 152:7
190:8 238:18
respects 22:17
responded 64:24
150:25
response 43:20 64:16
70:2 146:22 164:7
responsibility 98:6
98:24
restrict 81:6
resulted 37:5 113:5
113:7
rethinking 128:5
reverse 209:17
review 11:24 12:19
13:8 13:9 17:25 23:9
25:18 25:22 27:9 27:10
27:19 28:2 29:13 31:22
48:14 50:7 50:11 54:4
61:21 68:20 75:18
76:2 143:11 149:15
149:25 150:7 151:17
152:13 159:20 171:19
171:22 178:10 189:18
189:24 190:6 213:18
228:14 244:22 246:2
246:10 247:18 247:19
reviewed 43:23 143:16
reviewer 142:19 159:3
159:16 159:16 246:8
reviewers 50:17 150:14
162:12 245:9 245:23
reviewing 177:3
reviews 53:5 54:2
56:2 63:22
revising 32:19
revision 21:8
revolution 24:16
revolved 149:16

reward 99:17 100:15
144:24
rewarding 202:17
rewards 97:13 108:14
145:19 146:11
rewrite 55:15
rewritten 66:16
rhetoric 163:23
rich 130:24
Richard 9:3
rid 181:5
rightful 108:3
ripe 16:19
rises 63:20
risk-based 28:24 55:4
93:14 93:23 93:25
101:7 102:17 109:21
112:4 112:5 149:10
150:9 166:3 166:14
174:9 192:8 196:5
229:7 247:19
risk-reward 107:19
risking 70:14
risks 14:20 28:8 28:12
28:25 52:4 100:23
172:17 237:21 239:19
risky 185:3
ritonavir 136:16 136:17
roads 38:7
robust 140:16 144:20
230:2
robustness 145:24
role 21:19 57:12
126:13 126:17 209:17
rolled 54:16
room 9:6 47:21 87:19
169:3
Rosas 132:16
routine 203:21
routinely 153:19
ruining 70:4
rule 46:25
rules 158:14
runner 124:20

- S -

safe 26:21 26:23 82:21
98:20 105:22 105:23
122:17 148:10 151:14
158:4 202:5 213:20
216:2 225:4 225:8
239:8
safety 28:17 73:5 82:4
83:2 89:9 98:17 99:4
99:19 109:24 116:8
167:23 170:11 170:15
205:21 205:25 206:19
207:8 214:2 214:17
214:22 220:6 226:6
226:16 229:7 234:21
234:23 235:5 236:18
236:24 236:25 237:7
237:10 237:13 238:13

238:14 238:23 239:3
239:3 239:7
sake 85:15 101:17
116:7 116:9 168:8
salt 136:12
sample 95:9 95:9 95:9
95:10 95:10
satisfaction 78:21
80:10 186:2
satisfactory 138:9
satisfied 215:12
satisfy 78:25 82:22
save 160:7 186:13
218:8
saving 59:8
scale-up 117:2 133:11
134:5 134:15 134:23
141:25 224:17
scale 84:12 85:17 85:17
85:23 86:4 87:13 87:13
91:19 114:5 117:10
117:11 119:2 119:4
119:6 119:14 133:14
137:11 139:4 142:2
205:2 205:11 230:16
241:13 242:4
scales 91:20 139:2
scaling 130:18
scandal 35:10
scared 191:7
scenario 241:6
schedule 33:4
scheduled 10:24 17:3
207:2
scheme 47:19 59:19
111:19
schemes 111:19
schools 42:17 42:20
87:8 87:12
science-based 27:19
31:18 93:24 94:7 97:18
101:9 102:17 109:20
112:6 179:6 192:8
199:12 220:4 244:23
245:5
Sciences 7:8 7:11
86:20 87:6 127:2
127:11 142:22 214:13
scientific 6:19 29:24
31:5 31:8 31:9 50:7
50:11 50:12 50:15
50:24 61:15 65:10
73:15 76:6 112:7
112:12 112:14 128:17
130:23 171:21 176:7
176:9 185:19 190:4
191:17 192:24 195:22
196:6 196:8 220:13
245:9 247:21 247:24
scientifically 161:24
168:22
scope 20:15 25:9 34:24
52:4 55:21 152:8
172:13 172:17 241:4
scrambled 244:3
scrambling 232:21

screen 136:20
screened 8:21
screening 124:9
scrutiny 22:21 28:19
 29:12 35:11 196:5
 202:15 206:18
search 194:2
Secondly 220:13
Secretary 7:13
secrets 64:23
sector 22:6 23:18 23:21
 24:24 94:22 212:15
 219:19 247:4
sectors 23:15
secure 95:8
seeing 245:17
seek 42:23 232:10
 232:16 233:4 233:24
seemingly 81:7 104:14
 118:20
sees 144:15
segments 23:20
select 52:3 133:8
 135:2 135:3
selected 136:16
selecting 70:23 152:7
selection 134:21
 134:22 134:25 135:7
self-evaluation 123:22
self-fulfilling 208:21
semiconductors 91:4
send 52:23 63:25
sends 142:24
sensitivity 214:11
separate 81:13 92:18
 98:17 134:24 157:2
 183:9 209:6
separating 39:24
sequence 64:21 112:18
 192:9 192:10 207:4
 234:7 235:18 235:19
 238:23
sequential 89:22
SERAFIN 7:17 7:17
 9:3
serve 151:25 191:11
 191:12
session 68:6 68:6 93:3
 110:2 148:4
setting 25:21 25:21
 25:24 28:8 186:4
 197:14 220:4 220:10
 221:13 238:12 239:3
severity 183:23
SGES 8:25
share 160:14 169:9
 169:20 171:12 174:15
 185:18 186:18 187:4
 187:24 188:8 196:13
 240:15 246:15
shared 30:8 30:8 30:10
 82:16 187:5 191:5
 192:25 197:5 197:7
 197:11 235:14
shares 199:17 231:2
sharing 59:21 150:22

169:7 171:3 171:4
 171:13 171:20 195:7
sharpen 40:3
sharpening 40:11
shed 77:13
SHEK 6:23 6:23 10:3
 62:20 66:9 74:9 116:14
 214:7 215:7 231:12
 232:12 241:22
shelf 225:9 225:12
 239:17 239:20 239:20
 239:23 239:25 240:4
shift 38:4
shifted 35:4
shifts 21:9
shop 80:14 213:25
short-term 71:25
shorten 125:17
shorter 125:7
shortly 67:19
shot 78:6
showing 83:25
shows 33:8 137:4
 143:7 222:17
shut 38:9 158:9 221:5
shutting 38:19 38:20
sides 102:18 160:7
 160:12 193:13
sieve 131:5
sieving 89:19
sight 32:14
sigma 91:18 91:19
 208:8 208:9
signal-to-noise 95:16
 101:19 101:20
signal 225:2
significant 21:14 23:22
 28:11 28:16 36:15
 50:20 122:14 134:4
 160:6 164:25 165:11
 166:9 166:17 176:6
 181:11 181:12 181:13
 219:8 238:18 241:12
significantly 35:20
 37:12 39:8 181:15
 215:3
similarity 227:21
Similarly 29:17
simplifies 142:11
simplify 48:21 106:17
simulation 85:19
simultaneously 100:10
SINGPURWALLA 7:3
 7:3 9:8 33:6 33:10
 33:19 33:21 34:13
 39:20 40:16 60:23
 70:18 71:16 110:4
 110:12 110:17 180:14
 181:3 181:8 181:21
 182:8 184:9 184:11
 184:16 184:22 209:11
 209:15 209:22
sit 159:8 159:17
site's 177:19
site-specific 130:8
site 26:6 38:21 94:19

143:20 143:21 144:7
 153:6 167:13 173:12
 173:14 178:5 189:13
sites 22:14 29:2 29:10
 38:19 52:3 70:23
 152:7
sits 11:14
sitting 47:6 106:3
 119:24 142:19 179:9
situated 74:24
situational 213:5
situations 127:8 159:4
 208:7 240:11
six-month 26:4
sixth 115:13
skeptic 181:22
skeptical 157:9
Skill 79:13
slated 46:7
slide 27:3 34:16 45:7
 71:25 75:13 79:2 80:5
 86:8 86:17 125:8
 153:11 154:9 164:22
 169:17 175:19 176:14
 182:10 195:13 200:9
 211:10 212:3 229:5
 234:13 234:19
slides 45:6 70:20
 129:15 178:23 181:25
 230:24 235:10 239:14
slightly 144:16 224:23
slow 126:10
slower 127:18
slowest 194:21
smaller 39:3 68:6
 127:6 127:6 127:6
 142:3
smart 29:2 29:3
smarter 37:14
smartly 33:18
smoothly 233:18
snda 142:15
societal 60:19
Society 7:15 66:11
 85:9 97:15 103:24
 107:25 114:17 119:24
 121:22 191:20 243:12
sodium 223:7 230:8
software 91:5 110:18
 110:19 110:22 111:4
 111:16 112:22 112:25
 113:2 113:7 113:14
 113:22 113:25 114:8
 115:24 116:2
sole 60:18
solid 99:3 130:18
 130:18 136:13 154:16
 177:23 241:12
solids 87:3 96:3 96:4
 130:21 221:18
solubility 135:24
 212:2
soluble 121:7 139:12
 222:6
solution 122:7 132:23
 222:17 240:18 240:19

solutions 121:3 132:23
 132:24
solve 79:14 161:14
solved 193:6
solvents 136:22
solving 115:20
somebody's 84:18
somehow 116:19
 144:19
someone 131:7 135:3
 137:18
Somers 8:9
sometime 115:17
Somewhere 78:3 97:11
 110:21 158:9
sophisticated 29:7
Sorry 110:11
sounded 78:12 126:6
sounds 77:20 248:8
source 122:9 130:24
sources 117:23
space 81:3 81:6 81:9
 81:11 81:16 82:17
 83:6 83:23 83:24 84:4
 84:14 86:12 87:23
 88:3 88:20 89:5 89:6
 90:10 104:18 136:11
 137:6
spaghetti 139:17
speaker 10:19 76:20
 110:2 128:9 128:11
 164:10 182:24
speakers 146:24
speaking 42:19 136:7
 238:9
spec 216:14 216:14
 239:9
specialist 53:18
specialists 30:19 54:5
specialization 30:15
 69:2
specialized 30:17
specifically 19:4 71:24
 102:5
specification 82:2
 102:4 102:6 102:7
 138:4 174:20 174:23
 175:2 175:4 179:20
 185:20 194:22 194:24
 195:8 204:10 206:17
 208:15 212:19 213:15
 214:24 215:15 215:20
 218:10 220:4 220:10
 220:12 220:20 220:23
 221:13 222:20 223:2
specifics 20:11
specs 135:23 200:22
 230:22
spectrum 40:2
spend 18:13 52:16
spending 36:24 66:13
 116:16
spent 150:17
spiraling 170:8
spirit 59:25
spoke 49:3 137:18

249:12
spokesperson 155:2
sponsors 8:18
springboard 63:10
stability 130:8 143:21
 143:23 144:6 144:8
 225:13 231:6
stable 136:24 136:25
 137:13
stages 48:5 134:21
stagnant 219:20
stakeholders 47:25
 49:8 66:6 97:14 191:10
Standardized 55:3
standards 25:24 27:19
 28:9 32:18 118:8
 202:7 207:10 213:17
 213:18 239:23 246:3
standing 44:2
standpoint 11:20 13:3
 13:3 161:6 216:5
 216:10 217:21
Star 81:3
starting 10:25 60:5
 174:9 196:20 200:9
 214:2 225:7 235:22
startling 242:13
starts 138:12 140:23
 175:6 187:10
stated 154:5
statement 8:9 64:11
 243:6
States 60:15 125:22
statistical 39:25 161:19
statistically 161:24
 215:5
status 155:16 165:5
staying 142:13
steal 124:20
stearate 229:12 229:15
 229:20 230:4 230:9
 230:11
steep 35:25
Steering 9:23 45:14
 45:14 70:7 213:7
stick 74:19 74:24
 161:25 231:23
sticky 101:19
stir 221:20
stole 124:21 164:21
straightforward 244:12
strain 38:23 59:23
strategic 247:12
strategically 247:8
strategies 172:22
 179:3 193:23 196:15
 196:22 198:6 229:25
strategy 225:22
stream 241:17
strengthen 192:4
strengthening 53:25
strengths 219:10
 219:13
stress 124:18 125:9
 171:15
stressing 125:7 158:11

striving 32:11 173:3
 216:8
stronger 101:13
strongly 39:13 114:11
 242:25
structural 106:5 120:9
 122:20
structure 11:15 16:22
 17:8 17:14 17:15 85:5
 87:15 97:11 97:16
 99:17 100:15 104:17
 106:22 106:23 106:25
 108:4 108:22 118:12
 122:22 205:7 234:8
 236:2 239:18 249:4
structures 86:13
struggling 167:22
 242:4
stuck 121:8 121:10
 231:12
student 209:16
studies 56:23 123:21
 217:9 222:15 230:15
stuff 68:2 79:13 90:21
 96:4 223:23
sub-arguments 157:19
subcommittee's 47:14
subcommittees 16:25
subjectively 180:21
subjects 166:7 166:15
submission 25:18
 27:9 27:19 29:15
 142:14 224:13
submissions 193:16
 224:19 232:22 246:20
 246:25 247:2
submit 84:8
submitted 23:3 76:3
submitting 9:5
subsequent 143:19
 236:8
subsequently 133:25
subset 141:24 142:3
 142:6
substance 89:13
 117:3 125:20 216:25
substantially 21:6
 35:16 193:11
substantive 163:15
substitute 225:21
substituting 241:10
success 104:16 107:17
 107:19 127:15 151:17
 165:23
successful 113:14
 134:12 247:5
suffers 61:4
sufficient 31:17 33:18
 156:15 187:15 187:17
 203:19 203:20 223:25
 246:8 246:9
sufficiently 130:24
suggest 199:14
suggested 180:3 188:5
suggestions 200:13
sulfate 230:8

summarize 188:6
 190:2
summarized 192:3
summarizing 166:8
summary 36:6 199:10
summer 17:4 17:7
sunsetted 19:5
SUPAC 21:12 69:19
 127:23 129:7 129:9
 129:9 130:7 130:12
 130:16 131:18 132:19
 134:7 134:8 134:12
 145:13 145:14 145:25
 146:3 146:9 146:17
 175:12 198:17 198:18
 211:25 212:9 212:23
 228:2 229:12 239:13
 239:15 239:18 239:22
 240:21 240:25 243:5
 243:23 243:25 244:13
 244:16 244:21 245:3
 245:7 245:24 248:21
 248:21
superficial 240:22
superimposable
 222:18
superior 103:2
supplement 29:14
 53:19 76:7 172:4
 180:4 180:5 231:5
supplements 23:3
 150:2
supplies 133:17 133:20
supply 151:20
support 149:21 156:7
 163:21 171:21 183:7
supporting 57:16
 195:23
supportive 165:13
 177:2 177:5
supports 148:16 151:23
Suppose 182:13 215:15
supposed 205:20
supposedly 97:3
surprise 187:19
surprised 241:22
surprisingly 20:14
 21:13 27:6 157:10
 157:11
surveillance 34:10
suspect 156:11
suspensions 221:17
 221:19
sweeping 165:4
swell 139:17
swelling 139:23
switching 242:5
symbol 192:15
symposium 123:17
sync 29:21
synergistic 54:3 190:7
synergy 27:8
Synonym 79:18
systematic 27:25 28:24
 51:25 70:22 152:6
 155:18 212:8 212:25

systematically 24:24
systems-based 24:7
 24:9 35:12 155:14
systems 7:2 23:23
 23:25 26:17 27:6 27:7
 27:16 27:21 47:2 55:9
 56:4 56:8 57:3 88:11
 88:24 98:13 100:6
 100:6 103:6 103:7
 103:9 103:18 148:15
 148:22 155:22 157:18
 166:3 167:12 167:13
 178:4 178:12 190:3
 190:12 193:18 212:8
 212:12 228:19 247:25

- T -

tablet 98:3 139:13
 140:2 140:10 140:14
 160:24 161:3 228:8
tableted 82:14
tablets 98:10 160:25
 162:24 215:4 222:17
 224:4 224:15
tackle 18:21
tailor 155:25
tailored 195:21
tailoring 88:8
takes 113:3 118:19
 176:23 185:8 185:9
 195:16 210:9 247:10
talked 19:8 30:23
 31:2 48:6 52:18 56:11
 57:11 57:12 57:12
 88:17 97:17 106:6
 109:8 109:10 109:11
 109:13 109:13 172:17
 174:18 183:13 183:22
 192:12 200:19 207:25
 211:11 211:16 211:22
 214:8 214:9 216:18
 219:17 236:15
talking 19:22 36:6
 41:23 44:9 51:21 57:6
 66:5 66:5 68:12 80:15
 81:4 81:17 88:4 88:18
 93:11 93:13 93:16
 95:21 98:22 99:2
 106:20 106:21 107:10
 114:5 132:21 137:25
 152:17 161:25 171:23
 172:13 177:22 177:22
 177:23 183:11 183:12
 197:18 207:16 215:7
 215:9 230:14 231:13
 231:16 231:24 236:15
talks 166:6 178:14
 200:9
tall 115:7 115:8 123:11
tampering 182:4
tangible 80:16
tanks 39:3 39:4
tap 25:5

target 34:4 34:7 105:25
116:19 125:8 188:4
targeting 203:9
tarnished 61:5 61:11
task 27:23 44:7 45:8
45:19 45:20 45:22
45:23 45:24 46:8 46:15
56:21 59:5 59:10 62:7
67:15 111:13 122:8
187:13
tasks 20:17 20:23
27:2 28:20 30:16 46:4
46:11 71:4 186:24
taught 103:14 103:14
taxi 184:25
Taylor 44:22
teach 63:9
team 53:25 54:11
54:14 54:23 55:4 68:21
107:3 162:9 232:21
246:19 246:19 246:22
247:9
teams 30:15 30:19
150:15
tech 133:11 134:23
231:20
technique 28:7 242:18
techniques 33:16 34:11
60:12 102:23 102:24
103:13 137:5
technological 23:19
56:14 61:15
technologies 47:17
94:21 94:23 95:22
96:13 96:17 119:17
119:20 126:15 136:7
150:13 153:24 172:25
182:25 184:24 209:23
242:17
technology's 168:8
technology 23:15 24:16
26:16 41:24 47:12
63:10 96:11 96:16
126:16 127:16 128:18
134:16 141:25 153:14
159:5 165:18 167:9
167:10 167:11 168:8
168:11 173:24 177:21
179:7 179:14 210:10
214:9 231:19 249:5
TEMPLETON-SOMERS
7:12 7:12 8:10
Templeton 8:8
tend 129:18 129:19
tended 37:2
Tennessee 220:24
tension 73:9
tenure 75:6
terminologies 89:16
terminology 40:4 77:22
103:18 175:13 233:19
territory 63:11
tested 90:8 194:20
217:11
testimonies 210:3
testing 89:25 90:14

94:14 160:24 217:16
226:23 226:25
tests 90:3 90:5 90:21
91:14 223:5 228:6
241:20
textiles 91:3
Thank 8:2 8:7 10:16
10:18 17:21 19:25
32:23 34:13 36:20
41:17 43:21 44:8 45:3
66:24 69:17 70:13
76:12 76:15 128:9
128:13 146:23 148:7
153:8 156:5 164:8
164:9 164:22 210:19
210:20 211:8 249:20
Thanks 76:23 128:10
145:5
themes 26:15
theory 208:17 210:4
therapeutic 15:20
211:24 216:20 217:2
217:4 217:7 218:21
221:12 229:17
thereby 76:7 184:7
thermodynamically
136:24 136:25
thermodynamics
132:10
thesis 244:8
they'd 125:24
they'll 73:18 138:6
205:14
thickness 140:10
thinks 129:19
Thomas 9:2 9:3 10:16
thorough 237:18
though 31:19 38:17
45:21 55:25 67:17
90:16 120:10 210:5
230:15
thoughts 116:11 128:24
186:19 199:3 234:17
237:19
thousands 136:10
threads 40:25
three-day 167:5
three-quarters 22:16
throughput 124:9
128:18 136:6 136:20
throw 87:7 210:5
211:21 215:16
throwing 111:18
195:9
thrown 105:21
Thursday 249:22
tied 135:2 135:5 135:23
143:13
tiered 168:15 168:17
tiers 179:24
tight 204:14
tighten 220:11 237:4
tightening 220:14
tighter 216:15 219:21
219:21 219:22 220:20
timely 16:3 151:9

151:21 168:21 168:25
176:22 180:5
timing 44:23 117:12
titled 70:20
titrate 204:23
titration 205:10
today's 6:8 10:20 93:17
tolerance 221:4
Tom 6:25 62:19 62:22
63:8 120:20 122:5
145:22 152:2 204:19
215:17 226:22 241:7
241:20
tomorrow's 189:5
235:24
tomorrow 6:9 18:25
19:7 75:22 109:13
179:8 187:21 188:7
188:10 188:23 189:11
237:16 239:14
tool 187:25
tools 132:12 186:4
214:13 214:14
topic 10:20 149:7
150:3 198:10 219:24
232:15 233:18
topics 8:15 8:22 9:11
29:21 149:12 186:10
186:20 187:9 187:13
188:16 197:14 197:15
199:5 199:5 199:19
199:21 200:8 211:12
211:14 233:12 233:22
234:5 234:7 235:18
235:23 236:9
tort 60:16
totality 27:17
totally 139:3 183:2
totem 127:4
touched 46:10 46:16
58:2 130:10 233:8
towards 63:25 71:2
71:2 187:10 195:5
244:19 244:22
Toxicology 17:4
TQM 114:16
track 137:14 141:18
226:17
tradeoff 97:15 107:19
109:2 118:4 126:9
127:12 180:23
tradeoffs 118:10
118:11
tradition 200:22
traditional 39:10
200:24 201:3 220:23
traditionally 211:23
trail 82:24
train 63:3 67:18 87:12
247:6
trained 52:15 52:25
53:22 246:20 246:23
Training/certification
247:9
training 30:15 43:7
45:22 45:24 49:16

53:15 55:3 57:9 67:7
67:9 67:11 67:21 67:22
67:24 68:14 68:20
68:22 68:24 68:25
69:9 69:19 148:19
150:16 244:25 245:2
247:25
transfer 95:9 125:17
125:18 133:11 134:16
134:23 141:25 144:7
174:13 175:7 231:18
231:19 231:20 231:20
232:5 232:13
transferred 178:21
transferring 231:16
231:17 232:2
transfill 39:3
transform 97:25
128:17 128:24 136:7
transformation 78:19
78:23 80:9 104:10
transition 132:7 247:17
translate 81:11
translated 205:22
transmission 213:7
transmissions 212:16
transparency 31:6
50:25
transparent 73:14
transport 132:9
treat 130:2 144:13
treating 205:3
treatment 204:21
tree 51:4 222:8
trees 95:13 210:2
Trek 81:3
tremendously 218:9
trend 35:25 37:9
126:22 138:12 142:7
144:13
trends 138:11
trial 238:17 238:22
trials 84:12 100:25
220:6 238:19
trigger 153:25 154:19
triggered 154:14
trivial 120:23 121:4
121:5
true 22:14 33:13 43:15
74:14 127:7 130:22
146:16 160:23
truly 195:15 212:21
trust 169:17 169:18
169:19 169:19 192:12
192:13 192:15 232:24
truths 79:12
turns 64:6
tweak 189:4
tweaking 133:18
two-and-a-half 164:19
180:11
two-pronged 247:15
two-thirds 22:8 22:15
34:16
two-year 26:3 37:19
37:20 153:15 155:16

typo 10:15

- U -

U.s 66:17
ultimate 82:22 115:2 169:14
ultimately 71:22 73:20 102:3 105:25 149:8 184:7 243:11
unclear 152:10 152:11
uncomplex 182:15
underestimate 246:14
underlying 167:12 173:11 178:4 178:10
underpinnings 29:25
underscore 195:22
underscored 196:8
understands 47:2 177:6
understood 92:5 121:19 122:11 134:14 141:5 160:20 196:21 202:13 202:25 227:12 230:19
undertake 21:4 170:9
undertook 20:12
unexpected 166:10
unfolds 205:5
unfortunate 135:17
Unfortunately 44:23 133:13 135:12
uniform 161:5 177:18
uniformity 131:5 160:25 220:25 226:4
Union 59:6
unit 82:9 89:16 89:23 119:3 119:7 129:22 132:8 133:10 141:17 168:10 223:21 224:24 227:2 242:20 245:13
universally 153:12 154:8
universe 205:3
universities 117:17 120:14
University 7:4 7:6 7:8 7:11 69:19 112:21 224:7 224:8 224:16 244:9
unless 31:2 73:6 91:11 108:18 143:3 173:13 178:11 191:22
Unlike 8:16
unnecessary 119:18
unstable 137:12 137:16
unusual 151:8
update 19:2 19:8 19:8 19:9 19:14 44:7 187:21 189:6 189:8
upward 170:8
upwards 87:23
urge 150:2
use/don't 232:18

useful 30:9 72:19 72:22 110:8 217:3
uses 166:23
USP 75:8
utilities 185:9
utility 73:4 184:13
utilization 16:7 190:8
utilize 16:10 53:20 54:7 61:13
Utilizing 150:8 150:13 240:19
utmost 70:9

- V -

vacation 8:2
valid 121:18 132:2 161:24 162:2 176:9 176:17 217:5
validate 13:7
validated 13:13 146:10 146:12 195:25
validation 131:2 133:11 143:15 179:13 179:18 195:23 196:2 196:3 198:9
validity 65:10
valuable 48:9 72:13 72:13 219:17
value-added 178:2
variability 91:16 91:18 91:20 108:16 122:13 141:2 202:14 203:6 203:11 205:6 215:21 215:22 218:11 220:15 227:18
variable 95:14 202:16
variables 72:11 91:25
variance 40:18
variation 172:2
variety 28:20 53:23 73:12
vary 180:2
venues 56:16 67:2
verities 79:12
version 80:6
versus 126:19 127:13 162:2 178:8 212:16
veterinary 25:25 52:5 152:9
viable 65:7 151:5 205:15
vibrate 115:17
Vice 10:4 106:25 107:4 107:24 128:21 164:13
view 39:24 60:18 71:9 73:13 100:21 121:3 157:11
viewed 79:9
views 32:3 165:23
violating 41:6
violation 63:18 63:21
violations 61:22 63:16

65:22 65:25
violent 165:18 169:9 173:5 183:19 191:7
virtually 135:23
visible 135:19
vision 152:9 186:25 187:3 187:4 187:5 190:24 191:6 197:5 197:7 197:12 235:14
visually 221:8
vitro 101:2
vivo 101:2
voice 205:20 205:24 207:7 208:4 208:17 208:19
volatile 125:20
volatility 40:18
volume 131:24 139:7
volumes 160:19 193:16 193:16
voluntary 122:16
volunteer 243:16

- W -

Wait 41:19 205:5
waiver 9:4 10:17
waivers 8:24 9:8
walk 18:22
Walt 110:18
wanting 124:10
wants 73:6 125:3 211:18
warning 31:22 32:2 50:6 50:7 50:11 50:18 99:2 103:25 176:24 177:3
warrant 152:13
Washington 7:4 59:17 142:20
wasting 218:6
water 139:12 139:16
weave 58:13
web 26:6 49:2 54:10 60:15 94:19 153:6 189:13
week 43:6 68:23 243:11
weeks 18:17 59:17 67:23 137:2 137:7 164:18
Weighing 89:17
welcome 6:8 10:22 11:5 18:3 107:3 148:3
well-constructed 142:15
well-defined 154:18
well-known 184:24
well-stated 234:15
well-time 217:23
well-understood 92:4
weren't 119:25
wet 89:17
wheel 210:17

wheels 213:7
whereas 160:25
whereby 247:17
Whereupon 147:2 249:21
who's 70:7
widely 31:16
wider 21:23
width 140:4
willing 151:25 170:16
win-win 73:25 74:6 74:21 192:14 192:14 192:19 192:23 193:13 207:25
win 193:3 193:8 194:13 194:14 196:11 196:11 207:24
winding 248:12
windows 218:22
wings 44:2
WINKLE 7:22 7:22 10:19 10:21 11:5 44:3 51:6 61:7 62:6 65:2 66:24 67:14 69:15 70:13 71:14 93:21 159:24
wins 74:17
wondered 75:17
wonderful 191:9
wondering 63:17 111:17 241:11
Woodcock 45:17 70:10 93:20 183:9
work 8:3 14:8 16:9 19:10 27:21 28:22 40:10 41:13 44:12 44:19 46:8 47:7 52:9 53:14 54:14 55:4 55:10 55:22 57:18 61:18 71:23 72:5 72:6 86:5 98:10 100:23 133:5 144:2 148:18 163:16 163:17 170:24 173:20 208:16 210:16
workable 60:8
worked 44:20 163:7 186:5 244:13
works 87:5 133:14 225:3
workshop 15:12 15:14 18:17 32:8 47:20 47:22 48:3 48:24 67:23 68:7 129:15 148:13 148:20 164:17 164:21 165:8 165:9 165:22 166:11 167:5 169:2 169:17 169:23 171:4 174:7 179:21 179:22 180:3 180:8 188:12 199:10
workshops 31:5 67:24 68:2 166:2 166:7 166:8 166:10 178:16 178:19 179:5 197:6
worried 201:21
worry 133:22
worst 157:25 170:7

worthwhile 66:19
218:16
wrestling 245:22
Wright 9:23
write 162:23 249:8
wrong 6:6 138:14
217:13

- Y -

year-and-a-half/two
15:2
yields 238:22
You'd 38:15 154:16
175:13
you'll 21:12 23:16
25:10 26:5 26:10 30:20
40:14 46:9 68:19 69:2
123:8 174:17 188:5
204:24 210:18 227:19
227:21
you've 23:16 58:25
83:21 91:25 115:13
121:19 124:20 143:23
164:16 169:11 170:5
218:10 218:12 225:17
230:22 240:13
yourselves 76:14

- Z -

Zanasi 244:8
ZIP 143:22