

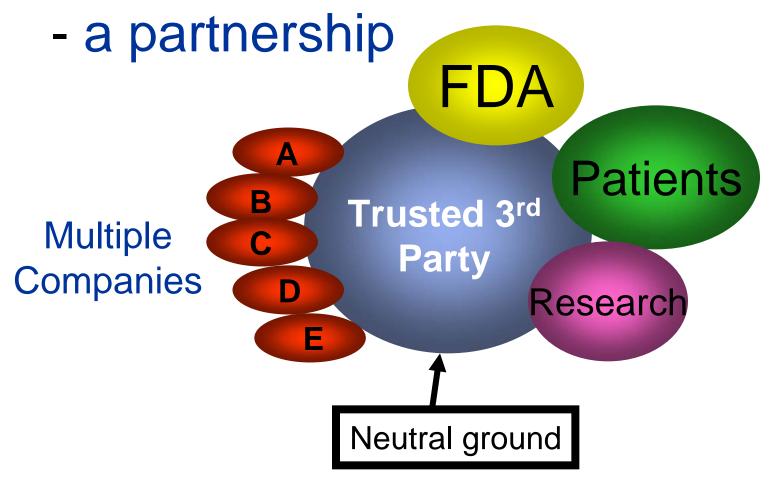
# Standardizing the Evaluation of Diagnostics

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### C-Path



What is needed for Change?



### C-Path Consortia



#### Safety

**Predictive Safety Test Consortium** 

### **Efficacy**

Lung cancer - targeted therapy & companion diagnostics

### Dosing

Warfarin - dosing based on genotype

### **Major Disease**

Coalition Against Major Disease (CAMD)
Alzheimer's and Parkinson's diseases

# How to improve



### Get it right at the start

- Best of class methods
- Proof of reliability and performance
- Standardized data submission process

# An 'Underwriter's Lab' for diagnostics



# United States Diagnostics Standards (USDS)

- standardize clinical samples-analytes
- evaluate and certify laboratory diagnostic tests
- data available for submission to FDA

### **USDS**



Why not standardize diagnostics?

Standards setting in other industries:





# **USDS** Concept

- Non-profit
- Associated with C-Path
- Initial funding SFAz

### FDA view



### Steven Gutman, FDA

Director, Office of In Vitro Diagnostic Devices



"It is our belief that C-Path's EGFR project would ... standardize the way studies of diagnostics for targeted therapy are performed in preparation for submissions for approval."

"The FDA and OIVD need projects like the ones C-Path is proposing to provide ... a template for the validation of diagnostics (biomarkers) in guiding targeted cancer therapy."

"The future of personalized medicine rests on the ability of projects like this to be undertaken and for information and lessons learned to be broadly utilized and shared."

# USDS Concept Two Types of Analysis



- 1) Analytical evaluation performance characteristics are measured
- 2) Clinical evaluation where clinical data is available.
  - association with a clinical condition
  - prediction of treatment response

# USDS meeting needs



- Standard sample repository
- Neutral lab testing facility
- Test = predicate?
- Lab developed tests: evaluation

USDS oversight of ....

process, protocol and reporting

### USDS Value Added



- Improve reporting to FDA
- Compare competing products
- Evidence for payer/providers/investors

## **FAQs**



#### Is USDS another regulatory hurdle?

No, it is not required. Additional steps are not added

How does USDS relate to NIST, CDC, CLSI, CAP, etc?

 Non-duplicating, working relationship to partner on standards and methods

What if I don't like the result?

Manufacturer can use data as it wishes

How is IP protected?

Data is confidential. Comparisons are voluntary.

How will reference standards be maintained?

To be determined on case by case basis