THE TRIBAL LIFELINE PROJECT

State-of-the-Art Risk Assessment Tools:

LifeLine™ Software

Annie Chaisson

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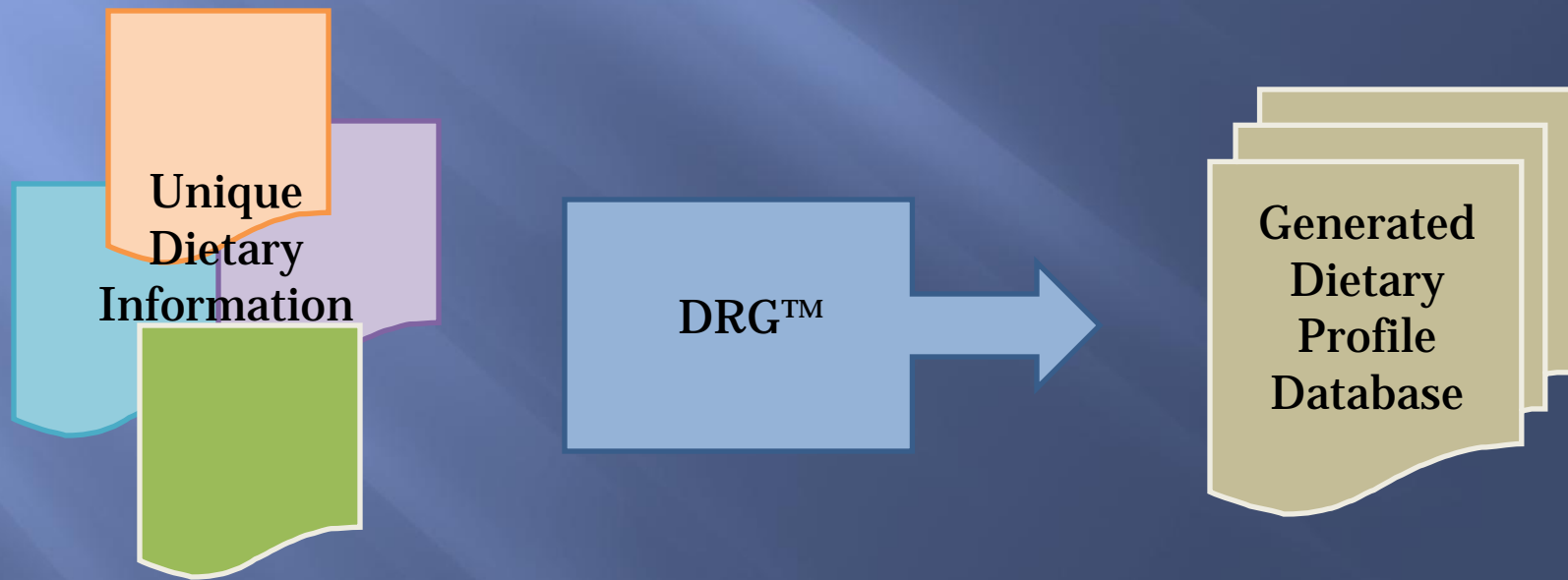CEC JPAC meeting
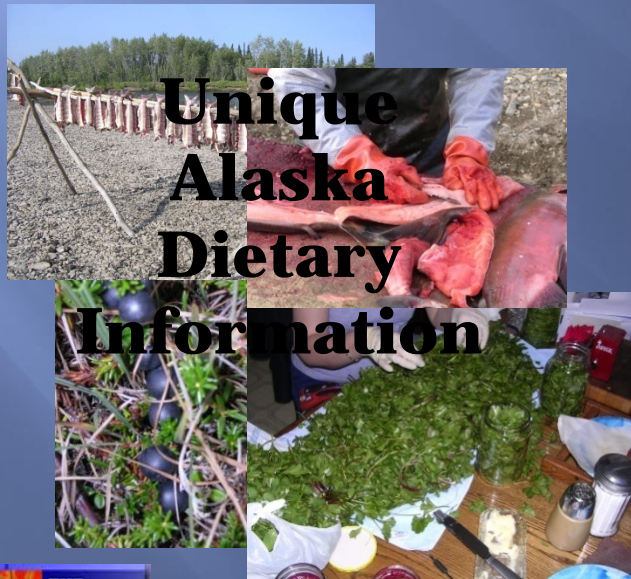24 September 2007

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Function of Dietary Record Generator™ (DRG)

- Reliably capture available dietary information and get it into a format useable in state-of-the-art risk assessment software.

Unique Dietary Information → **DRG™** → **Generated Dietary Profile Database**

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US EPA Tribal Lifeline Project – The Alaska Compendium of Traditional and Subsistence Diets™

- The DRG™ has been used to create a database representing five major ecological-cultural zones in Alaska. This database reflects traditional foods.

Unique Alaska Dietary Information

DRG™

Alaska Generated Dietary Profile Database

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Tribal LifeLine Module – Subsistence Foods
"Sea Mammals" (note breakdown of parts used)

LifeLine. Food Residue Translator - [Residues1]

File Edit View Season Translate Window Help

Data Set: Sub Arctic Freshwater Pe

Annual Residues

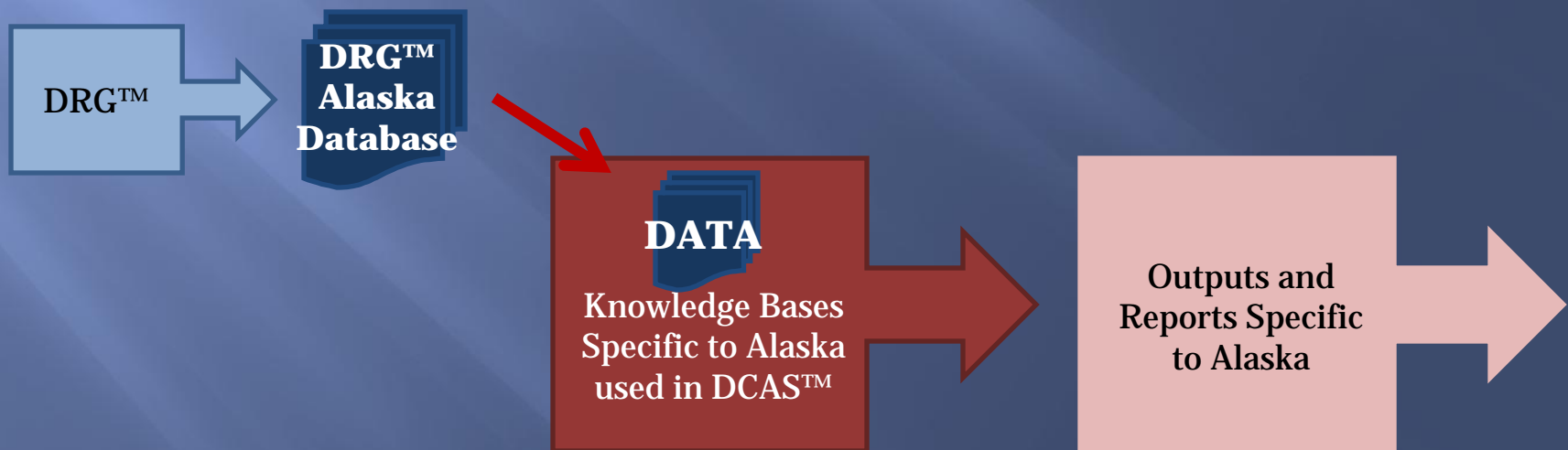**Season Selected**
- ⦿ Annual
- ◯ Spring
- ◯ Summer
- ◯ Fall
- ◯ Winter

Inputs / Outputs

Translate to Food Residues

Residues | Factors

	Code	Crop Group	Code	Commodity	Code	FoodForm	Residue #1 (ppm)	Residue #2 (ppm)
17	8	Game mammals	38	bear		All		
18	8	Game mammals	39	beaver		All		
19	8	Game mammals	40	deer		All		
20	8	Game mammals	41	mink		All		
21	8	Game mammals	42	moose		All		
22	8	Game mammals	43	muskrat		All		
23	8	Game mammals	44	rabbit		All		
24	8	Game mammals	45	squirrel		All		
25	8	Game mammals	46	elk		All		
26	9	Bread		All		All		
27	10	Vegetables		All		All		
30	11	Sea mammals	65	beluga	25	flesh		
31	11	Sea mammals	65	beluga	26	liver		
32	11	Sea mammals	65	beluga	33	eyes		
33	11	Sea mammals	65	beluga	34	flipper		
34	11	Sea mammals	65	beluga	35	skin and fat (muktuk)		
35	11	Sea mammals	66	seal		All		
36	11	Sea mammals	67	oogruk		All		
37	11	Sea mammals	68	walrus		All		
38	11	Sea mammals	69	whale		All		
39	11	Sea mammals	70	devilfish (gray whale)		All		
40	12	Fowl		All		All		
41	13	Egg		All		All		
42	14	Soil		All		All		
43	15	Tea/tundra		All		All		
44	16	Water		All		All		

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Function of LifeLine Customized Dietary Assessment Software™ (CDAS)

- CDAS™ is risk assessment software with enhanced capabilities allowing for a focused assessment
  - Uses unique dietary files created by the DRG™
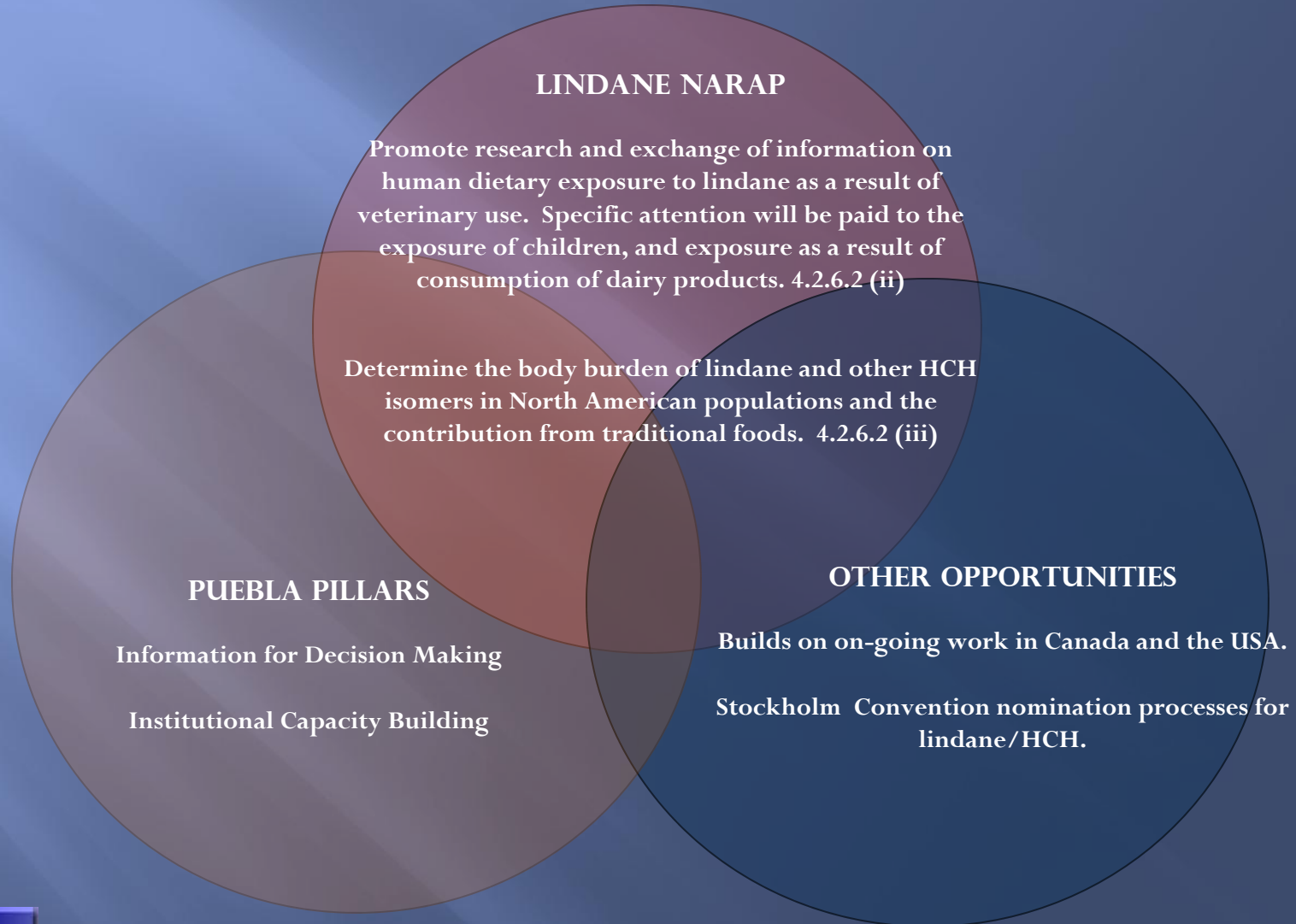 - "Cultural blending" capability
  - "Seasonal mobility" feature

DRG™ → **DRG™ Alaska Database** → **DATA** Knowledge Bases Specific to Alaska used in DCAS™ → Outputs and Reports Specific to Alaska →

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"Cultural Blending"

Database Describing Market Diet (General Population)

50/50

Dietary Database Specific to Focused Population

The software can account for a mixture of a unique (traditional) diet and commercial diet.

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Seasonal Mobility

- Different housing, water source, food source and residues may be entered for a specified time (season). Once the season is completed, the person returns to their usual housing, water and food sources, and residues.

Thank You

Annie Chaisson

The LifeLine Group

AMChaisson@TheLifeLineGroup.org

For software, tutorials, and updates please visit
www.TheLifeLineGroup.org