



# Canadian Bovine Genomics Workshop

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# Canadian Bovine Genomics Workshop



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SASKATCHEWAN

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# Addressing Priorities

- Identify and select most important
- If most important is similar for all breeds, pool the limited resources to “do it right”
- e.g. Harvest & store samples from all calves
  - DNA scan high/low phenotypes
  - Stats determine other contributing factors
  - Fine tune for breed-specific priorities

# Aligning Research with Commercial

- “Commercial” must identify what their customer wants to buy, then support research into that area
- **MUST NOT** let commercial direct all research in this fashion
- to maintain competitive advantage in the future, **MUST** support ‘basic’ research
  - innovative, risky, *but* → ‘world’s best’

# Funding, Resources, Initiatives

## Resources (Saskatchewan):

- **WBDC (300 cow research herd); SRC (genome expertise, GenServe); Genome Prairie; AAFC (gene preservation, semen & tissue bank); VIDO**
- **2<sup>nd</sup> largest commercial herd in country**
- **USask: AMR, sustainable systems, nutrition, crops & feed, dryland agriculture, indigenous land management, development for the changing north**

# Brand Value of Canadian Beef

- **Reliable, predictable, quality & quantity**
- **Basic “Canadian Quality” always = health, taste, cooking quality, environment (e.g Carbon footprint for each product?), animal welfare**
- ***In addition to these basics, ‘quality’ differs for each customer***

# Brand Value of Canadian Beef

- **Genomics must ID genotype for basics + customer-specific quality**
- **Bioinformatics to understand & predict influence other factors**
  - **mgmt, location, breed, feed, etc.**

A photograph of a modern multi-story building with a mix of brick and glass facades. The building features a prominent brick tower and a glass-enclosed skybridge. The sky is blue with scattered white clouds. The text "Thank you" is overlaid in the center in a green, bold, sans-serif font with a white outline.

**Thank you**

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