

# Consortium for sharing image data to enable the development of Imaging Technologies for seed quality testing

**Presenter(s)** : Ganesh Kumar, Bert van Duijn, Craig McGill  
Advanced Technology Committee, ISTA



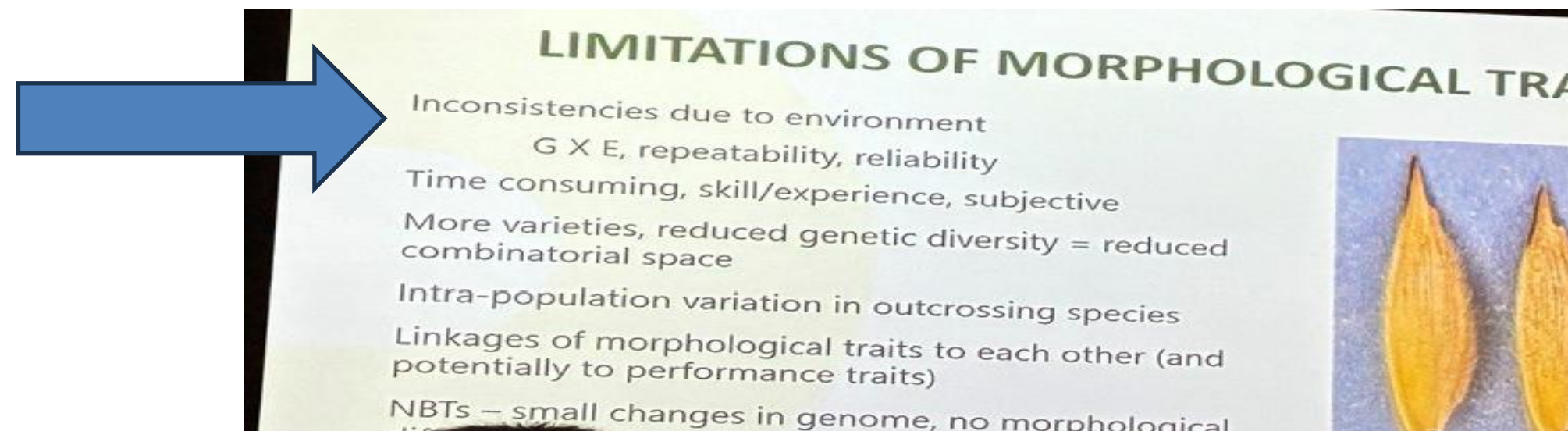
# Challenges and opportunities in developing imaging technologies for seed quality testing

## Challenges

- *Requires large image data set*
- *Access to diverse training data set*
- *Longer time for algorithm development*
- *Higher cost*
- *Requires updated ISTA rules*

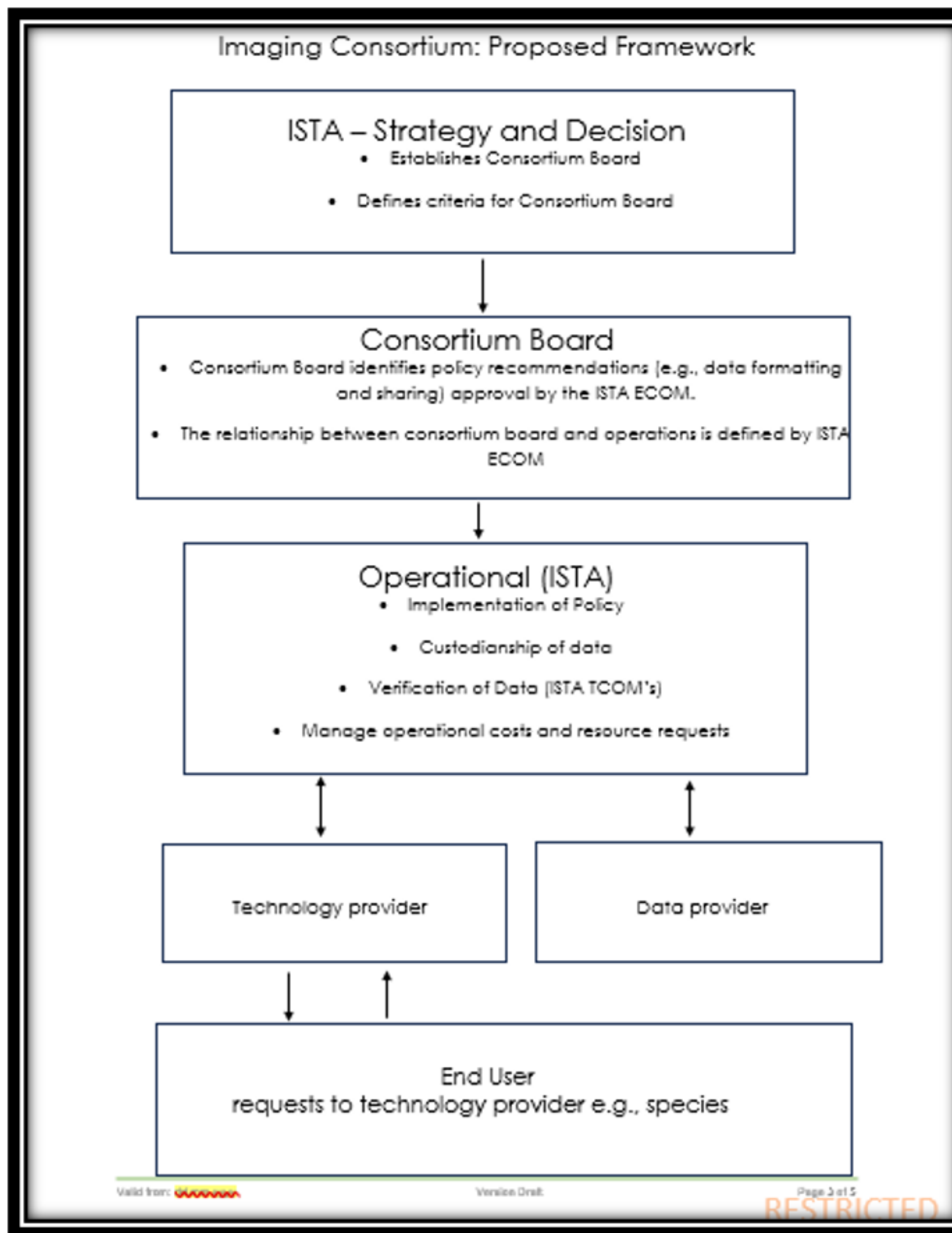
## Opportunities

- *Creating a consortium for storing & sharing image data*
- *Leveraging ISTA expertise*
- *Collaboration among interested parties*
- *Increase speed & reduce cost of innovation*
- *Increase realibility & global standardization*



Curtis Pozniak, June 22<sup>nd</sup>, 2026

# Framework



# Advancing the image database consortium initiative

2024

- Proposed consortium concept at ISTA annual meeting, Cambridge, England
- Gained strong member endorsement
- Captured member inputs to refine the proposal

2025

- Defined consortium framework and presented at ISTA congress, Christchurch, New Zealand
- Secured ECOM approval to advance the proposal
- Launched project in ATC and established a core team

2026

- Identified service provider and provided sample images for cost estimation.
- Developed consortium agreement and technical guidelines
- Captured inputs from 17 members on interest and crop of preference

# Eutima company provided an estimation of cost for image data storing and retrieving

- KYOD is a cloud-based software solution
- No cost of setting up image database or underlying data infrastructure
- Cost is determined based on usage including privileges like;
  - Data provider (data upload) = 3 CHF / month
  - Validator (standard / admin user) = 10 CHF / month
  - Data consumer (read only user) = No charge
  - Storage cost upto 1 TB = 20.48 CHF / moth
- Note : Custom UI may attract or streamlining workflows to provide tailored solution for individual requirements may attract additional cost.

# Deliverables

**Concept Note: Consortium for sharing data for  
the development of Imaging Technologies**

**Version 3.0 February 2025**

**Imaging Consortium Agreement**

**Version 1.0 February 2026**

**Imaging Consortium Technical Guidelines**

**Version 1.0 January 2026**

# In Summary...

- Strong ISTA endorsement validated consortium concept
- Next steps : share consortium agreement and technical guidelines for member feedback

# Open discussion

- **Do you support this idea? Why or why not?**
- **What concerns, risks, or challenges do you see?**
- **Would you consider joining the consortium?**

# Acknowledgements

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**ATC core team :** Ganesh Kumar; Brite Boelt; Victorio Costa; Giovanny Lopez; Mailen Martinez, Kyle Peterson and Bert van Duijn

**Cross functional team :** Shankara Naika<sup>1</sup>, Kate Dorchincez<sup>1</sup>, Bruno Zaccomer<sup>1</sup>, Birte Boelt<sup>2</sup>, Dot Vittrup Pedersen<sup>3</sup>, Jens Michael Carstensen<sup>4</sup>

<sup>1</sup> Bayer Crop Science; <sup>2</sup> Aarhus University, Denmark; <sup>3</sup> DLF; <sup>4</sup> Videometer company, Denmark

# Thank you!

