Technical Working Party on Testing Methods and Techniques	TWM/3/19
Third Session	Original: English

#### DEVELOPMENT OF BIG DATA PLATFORM FOR DUS EXAMINATION

Document prepared by an expert from China

Beijing, China, April 28 to May 1, 2025

Disclaimer: this document does not represent UPOV policies or guidance

The annex to this document contains a copy of a presentation "Development of big data platform for DUS examination", to be made by an expert from China, at the third session of the TWM.

[Annex follows]

Date: April 9, 2025

TWM/3/19

### ANNEX



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## **CONTENTS**

- 1. Background
- 2. Current development
- 3. Future plan

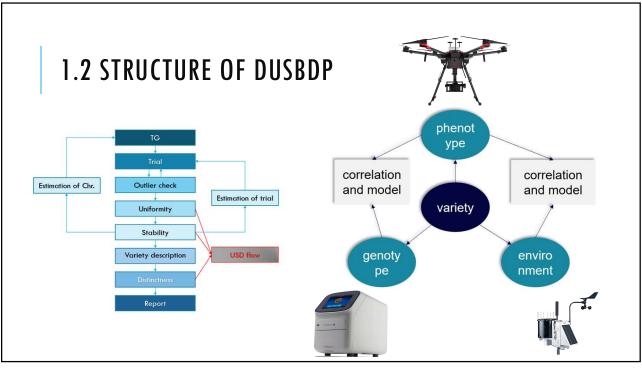


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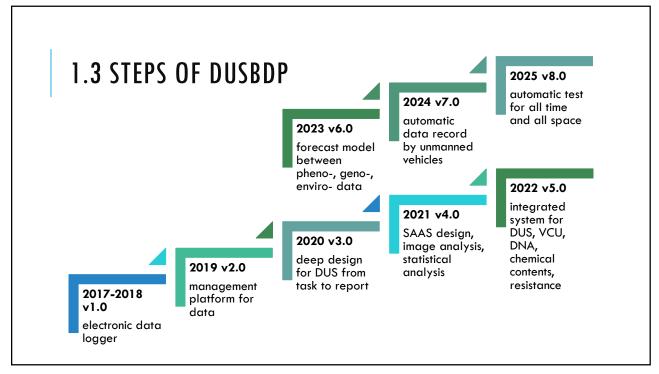
## **1.1 PROBLEMS IN DUS TESTING**

1 Personnel errors and environmental errors.

- 2 Low efficiency of data collection and analysis.
- 3 Low linear correlation between molecular distance and morphological distance.
- ④ Imperfection of minimum distance of D, U and S.



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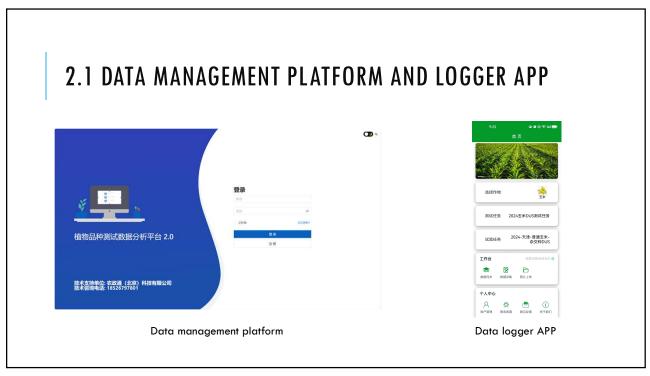
# 1.4 HISTORY OF DUSBDP

- 1. 2017 We developed a datalogger which is prototype of DUSBDP.
- 2. 2021 We reported DUSBDP4.0 in TWC39.
- 3. 2023 We reported DUSBDP5.5 in TWO55.
- 4. 2024 We abandoned old platform and built a new one for better analysis module.

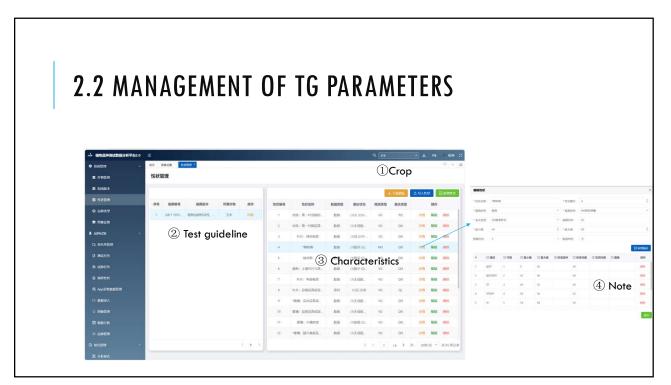
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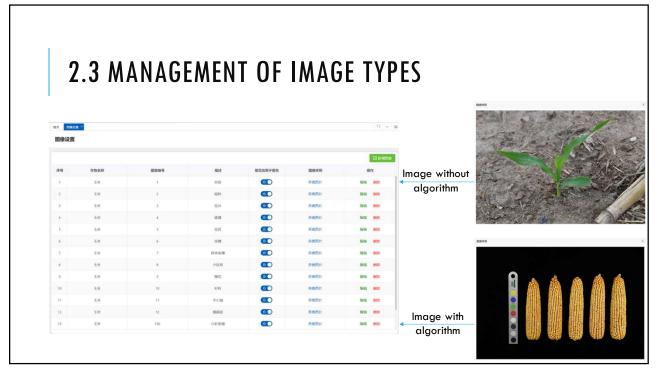
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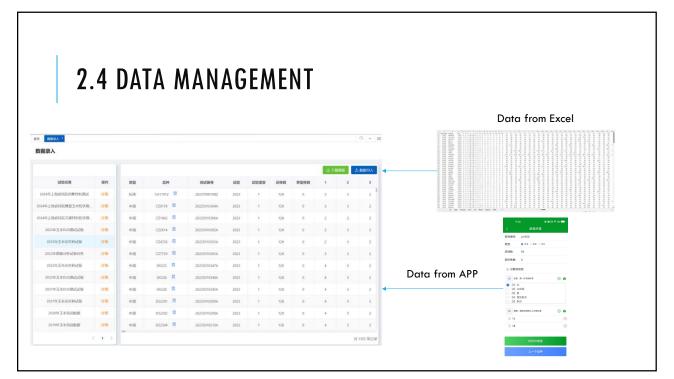


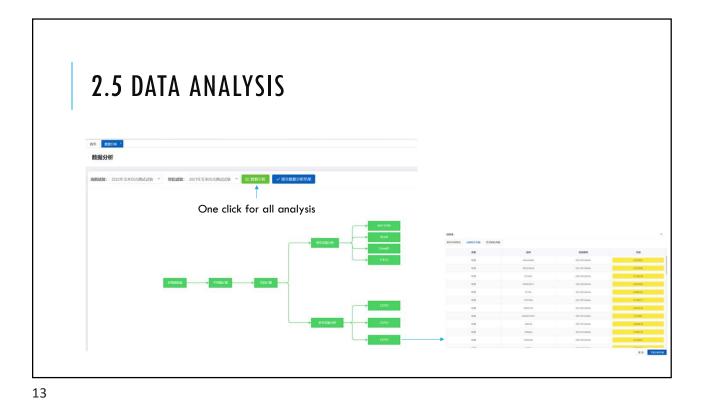
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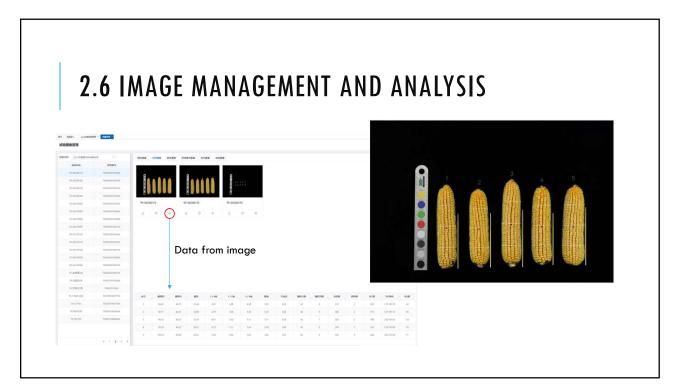


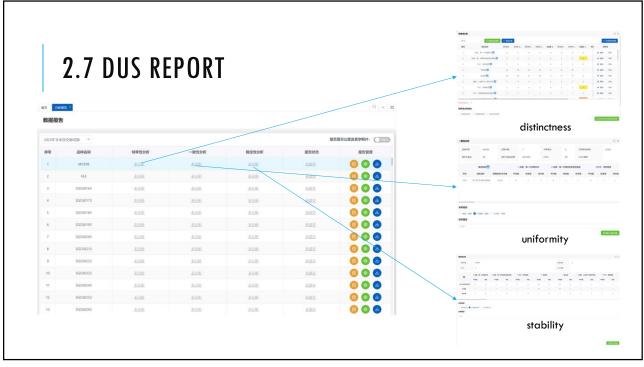


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## **3.1 ADVANTAGES**

① One-click data analysis with several checks generates perfect reports for a trial.

2 Images play an increasingly important role in DUS testing.

3 We have more time to seek secrets in data.

