

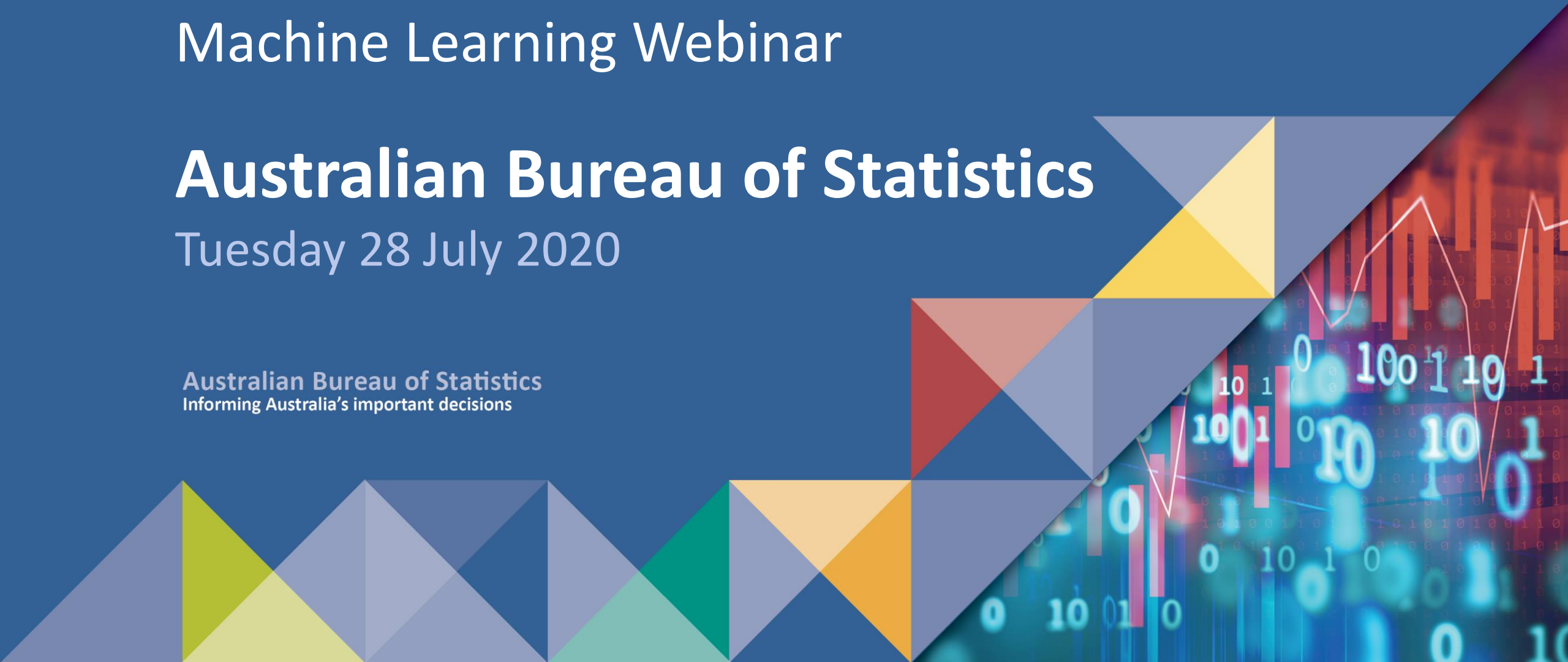






UN World Data Forum Machine Learning Webinar

Australian Bureau of Statistics

Tuesday 28 July 2020

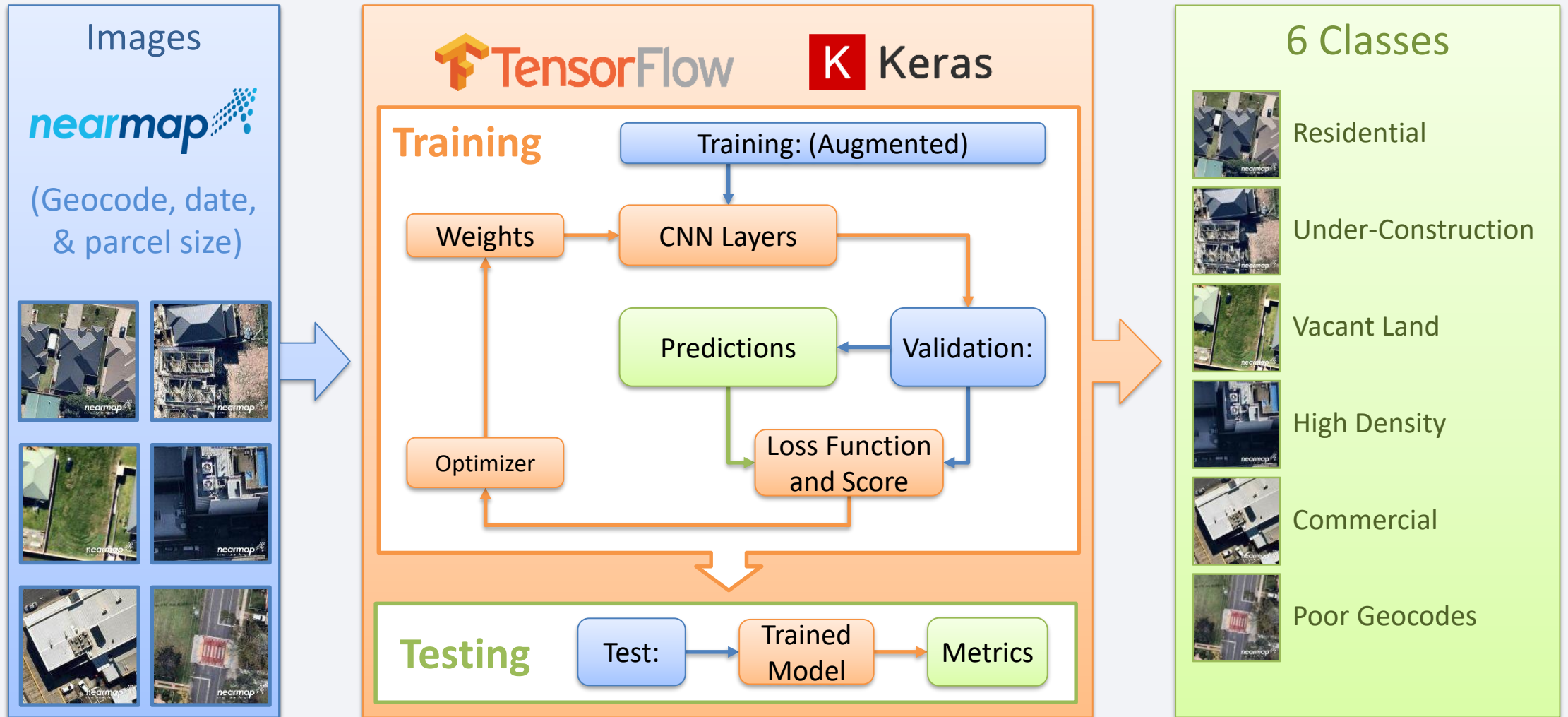
Australian Bureau of Statistics
Informing Australia's important decisions



-  National Statistical Organisations have a long history of innovation.
-  Working together – with other NSOs, agencies, experts.
 - UN HLG-MOS Machine Learning Project.
-  Field of machine learning is maturing.
-  Harnessing ML for the purposes of an NSO:
 - Expectations of data users. Production systems.
 - Robust, transparent, explainable, quality metrics.
 - Research.
 - Opportunities.

Projects: AR Automated Image Recognition

DATA
61



ABS projects - examples

Address Register AIR model – Image classification

Intelligent coder – Free text classification

Dwelling occupancy – Prediction

Land Cover / Land Use – Satellite imagery classification

Ongoing Research

Challenges and Opportunities

- **ML challenges**
- **Meeting the needs of an NSO**
 - Ongoing work – ABS + UN HLG-MOS ML Project
 - Emerging field – emerging solutions and opportunities.
- **Capability Building**
- **Computational requirements**
- **Working in partnership** – Multi-disciplinary teams
 - Methodologists / data scientists.
 - Subject matter knowledge / expertise.
 - IT teams.

