

random_state = 42

Is this really AI governance?



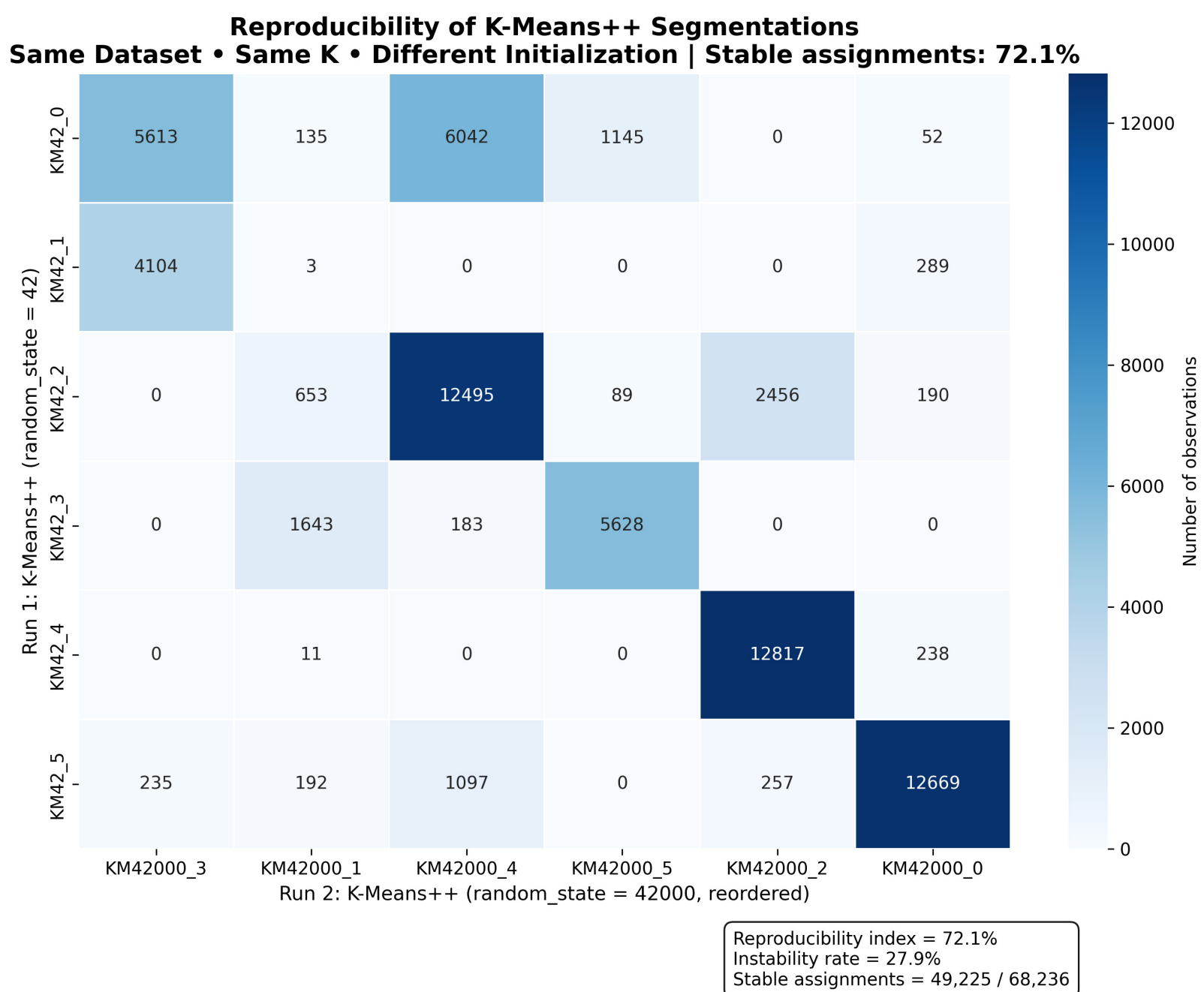
Episode 1 : The random_state illusion

A K-Means experiment



Same dataset. Same number of clusters. Different initialization.

Only **72.1%** assignment agreement



A fixed seed reproduces one run.

It does not make the model deterministic.

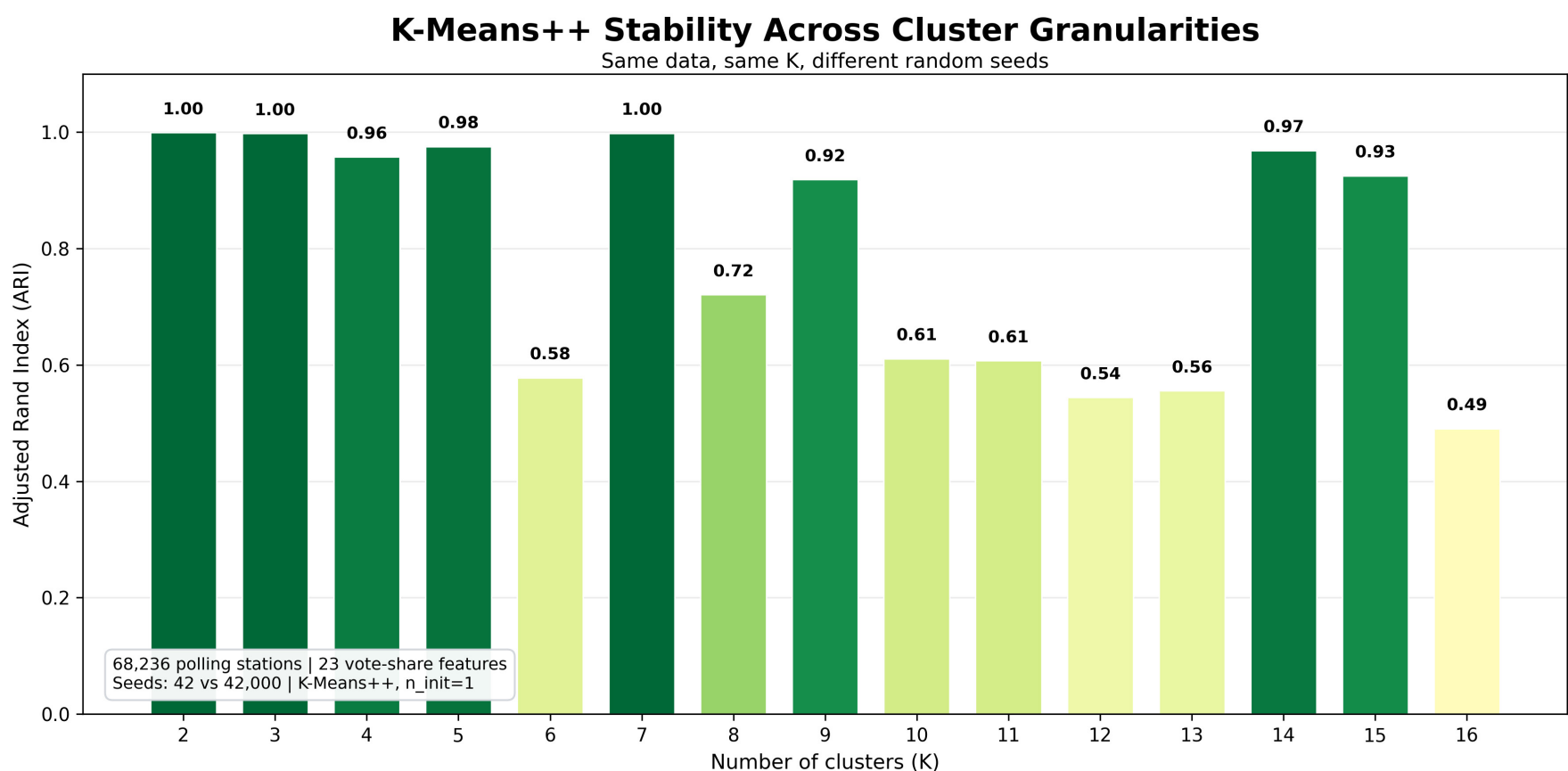
A K-Means experiment



Same dataset. Same number of clusters. Different initialization.

Reproducibility can **collapse**

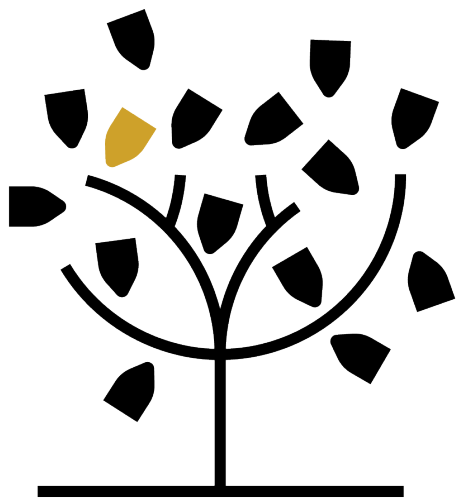
ARI drops from 1.00 to **0.49**



A fixed seed reproduces one execution.

Governance requires reproducible segmentations.

**A reproducible
execution is not
the same as a
reproducible
segmentation.**



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