



Managing an AI-native 6G network

Berlin 6G Conference 2026

Deutsche Telekom, infosim, BISDN, HPI, DFKI, KIT

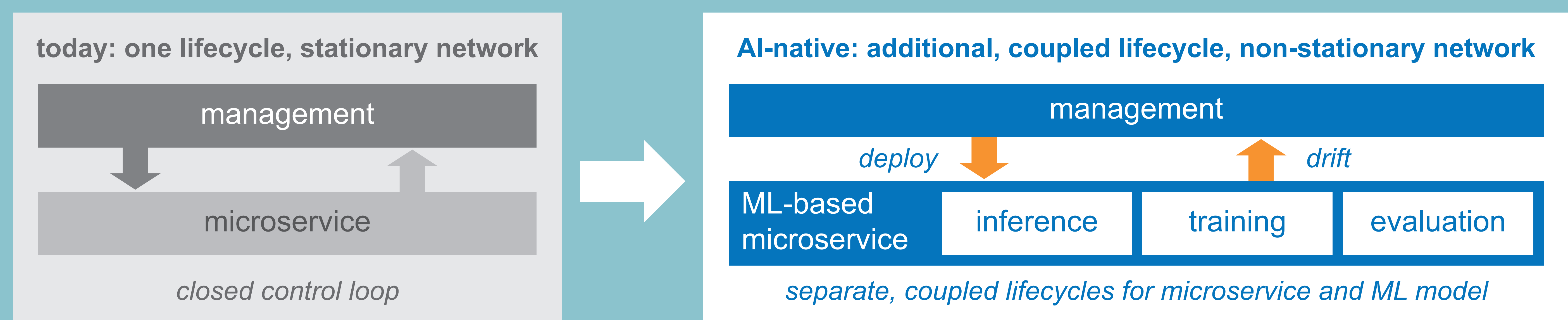
AI breaks the assumptions behind network management

- The 6G network no longer stands still – service placement becomes continuous
- ML models get their own lifecycle, coupled to the application they support
- AI apps conflict through the network – in the configuration space and the training data
- The 6G network will both use AI and support AI applications

KIOps6G develops an AI-native network management platform

The paradigm shift

AI adds a second lifecycle - the model's - and management must run both



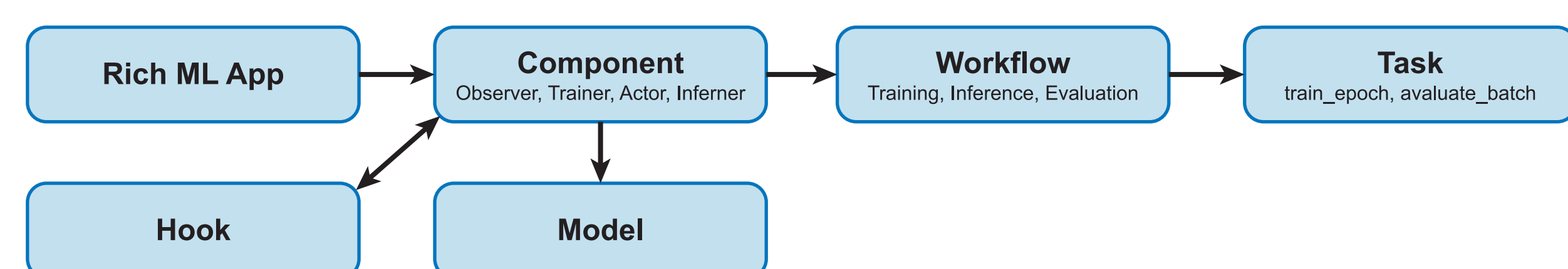
Work in progress

AP 1 - Network Reality

- 6G: evolutionary advent
- eco-realism: no big bang invest
- heterogeneous legacy playing field

AP 2 - A New Kind of Apps

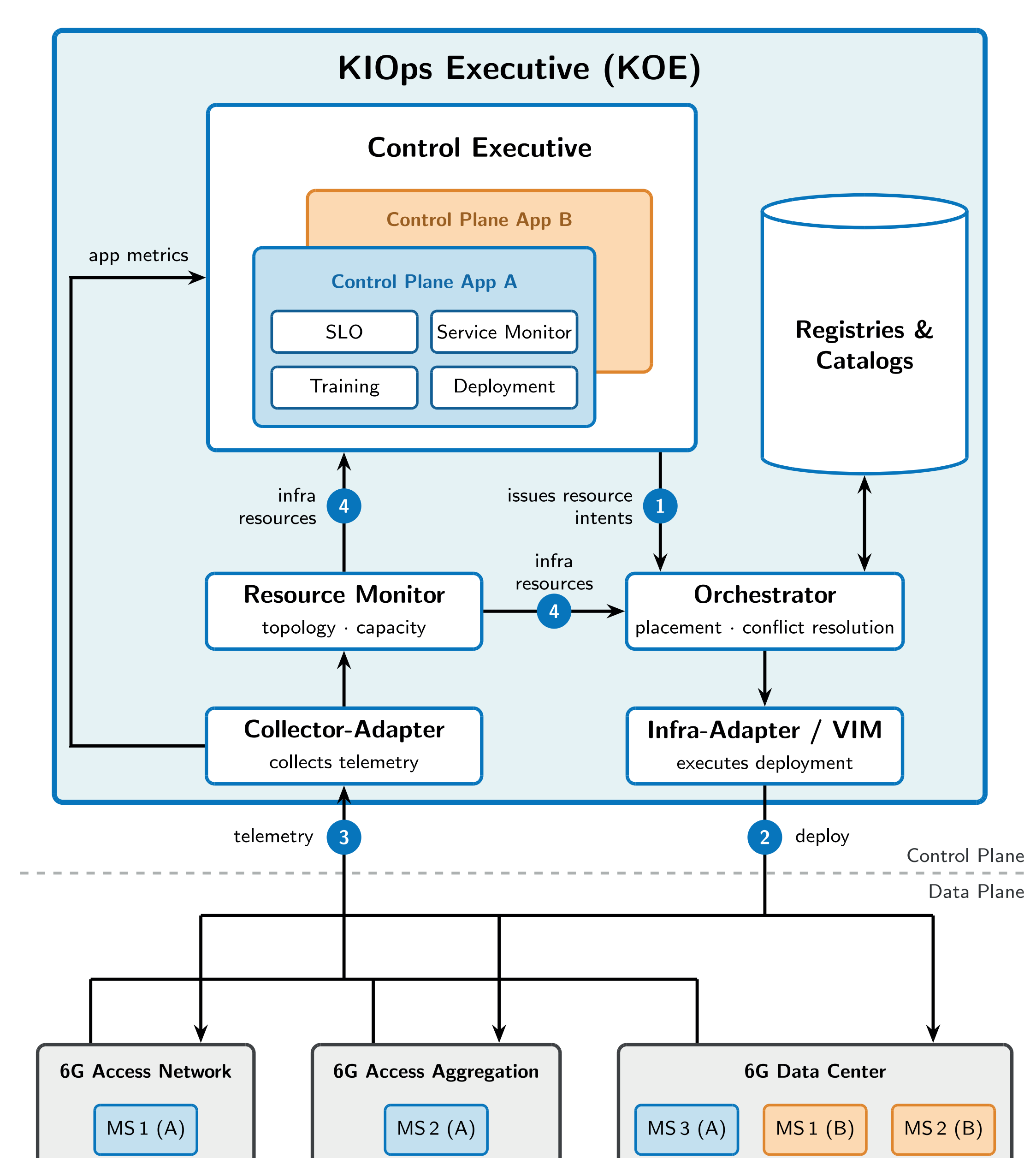
- capture the right attributes of ML apps
- capture the AI lifecycle end to end
- structural base for automated management



AP 4 - Experimentation

- testbed integration & measurement campaigns
- validate the management loop under real load

AP 3 - A New Kind of Management



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With funding from the:



Federal Ministry
of Research, Technology
and Space