# Barriers for AI Development



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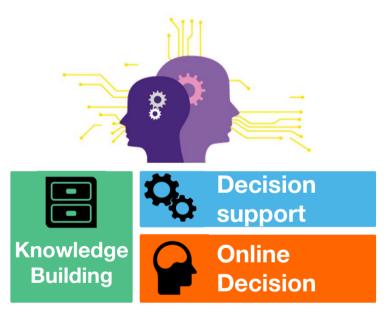
### Al for Radio Access Networks Test and learn internally and with our partners

Mid-term activity:

- Trials with RAN suppliers and with start-ups
- Development of AI RAN management features inhouse
- Collaboration with operational teams in Orange affiliate

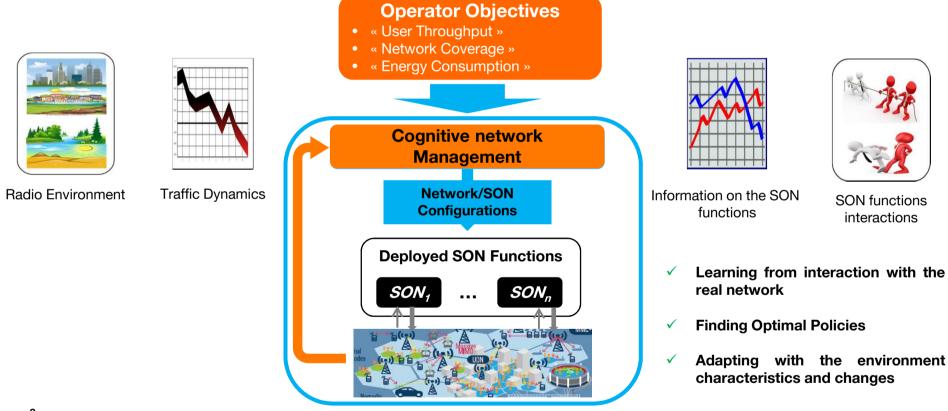
Research activity: internal research, collaborative projects and partnerships

- How to learn online efficiently?
- How to predict accurately (both in time and space)?
- How to build a RAN which is AI capable by design ?

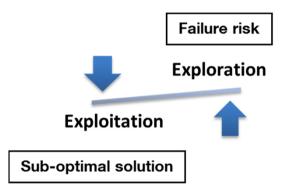


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# **Cognitive RAN management use case**



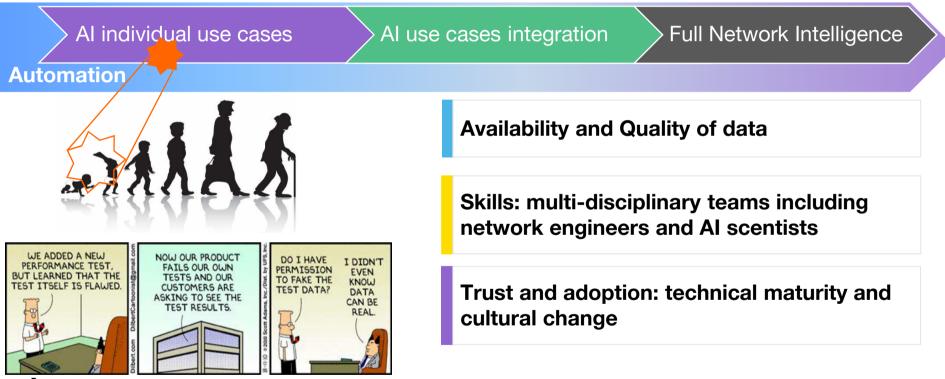
## **Cognitive RAN management use case** Towards an operational implementation



- Pre-training: using simulations, historic data and human expertise to avoid building strategies from scratch
- ✓ Collaborative learning and Knowledge transfer to speed the convergence and limit exploration
- ✓ Control performance degradation and ability to rollback

#### Tight collaboration between radio engineers and AI scientists is crucial

## **Barriers for AI development**





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