

Self-optimization in 3GPP LTE networks

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Beyond 3G

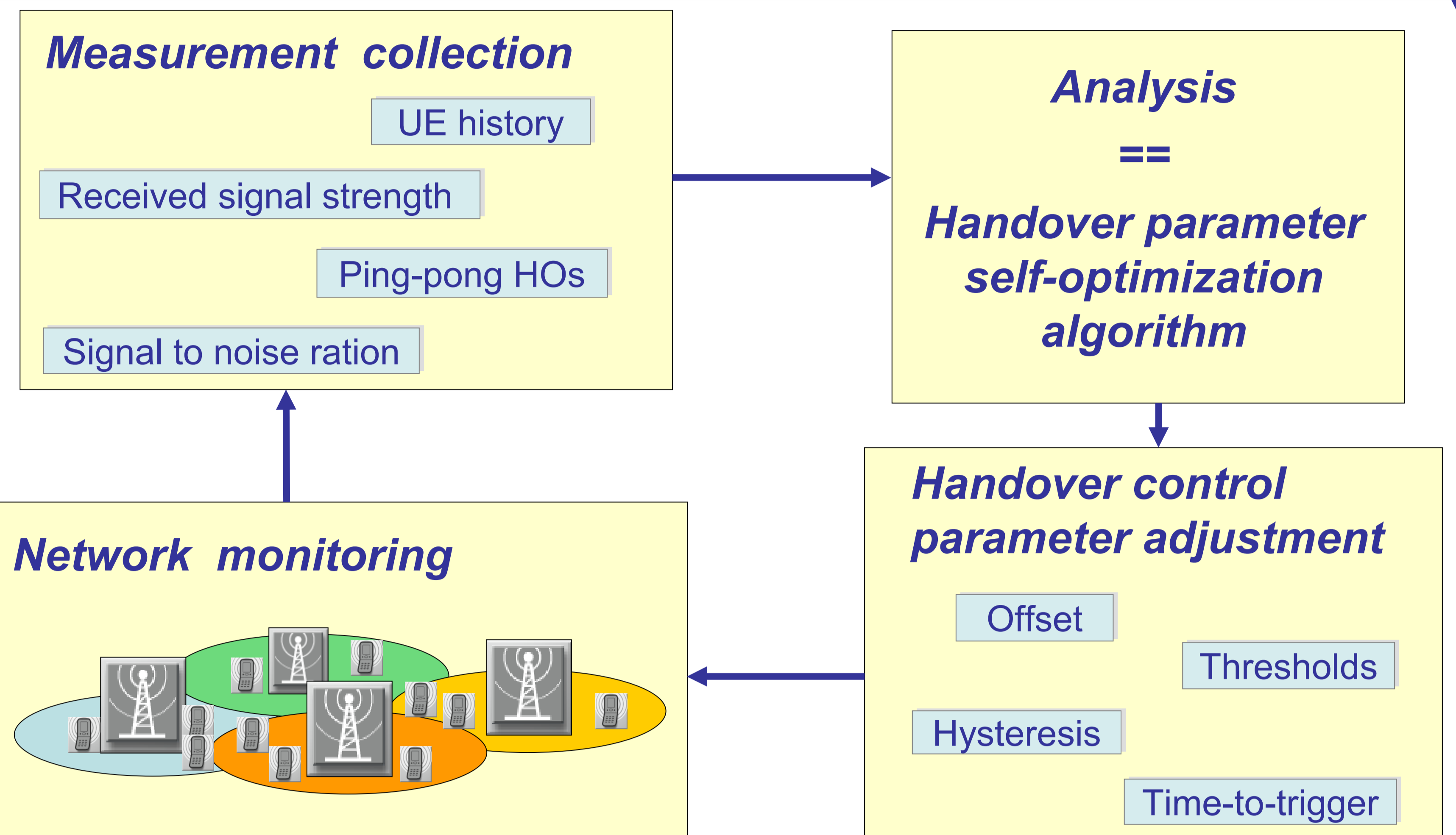
Requirements

- high peak data rates
- low latency
- seamless mobility

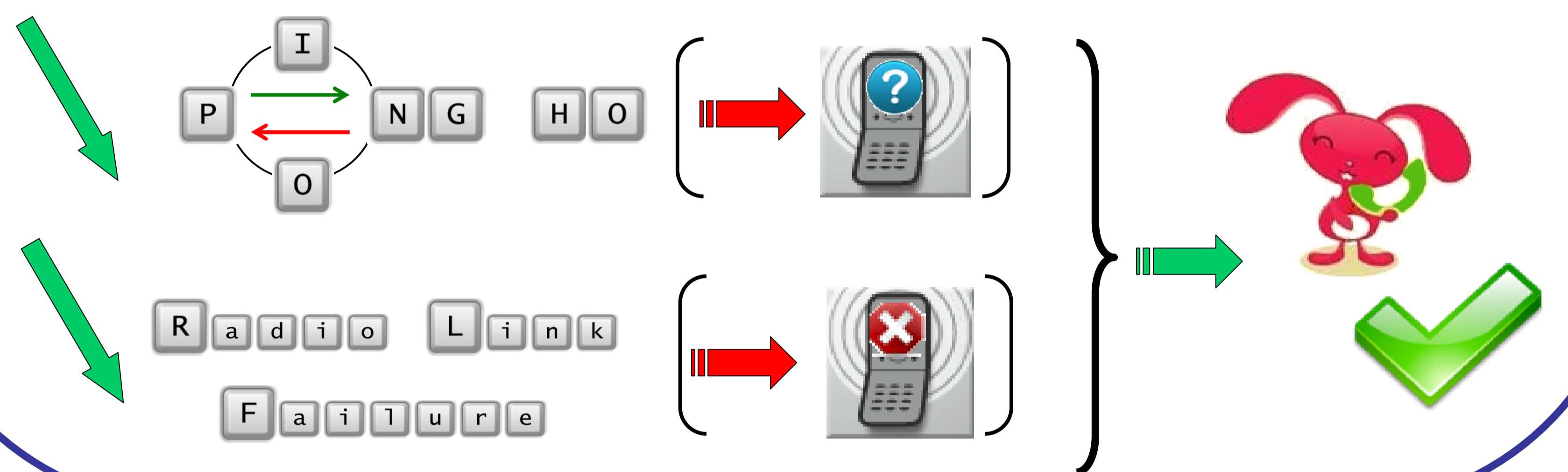


- 100 Mbps (DL) / 50 Mbps (UL)
- latencies < 5ms
- suited for high speeds (≤ 350 km/h)
- fully automated environment

Handover (HO) self-optimization



Why?

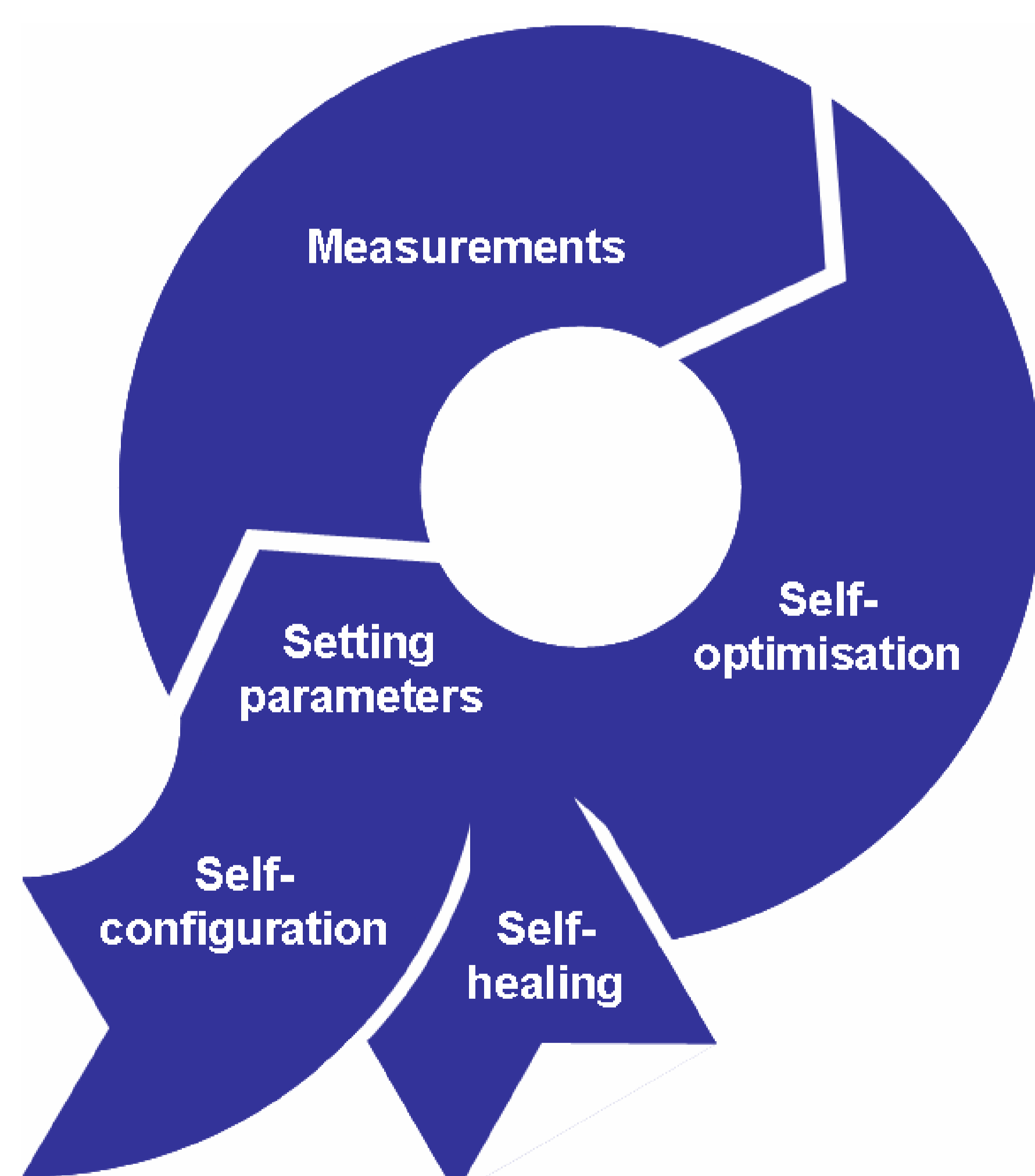


Self-x functionalities

configuration: initial parameter sets upon deployment

optimization: handover, load balancing, admission and congestion control, etc

healing: coverage hole management



Source: www.fp7-socrates.eu

Algorithm assessment and simulation

