

# SOCRATES – A quick overview

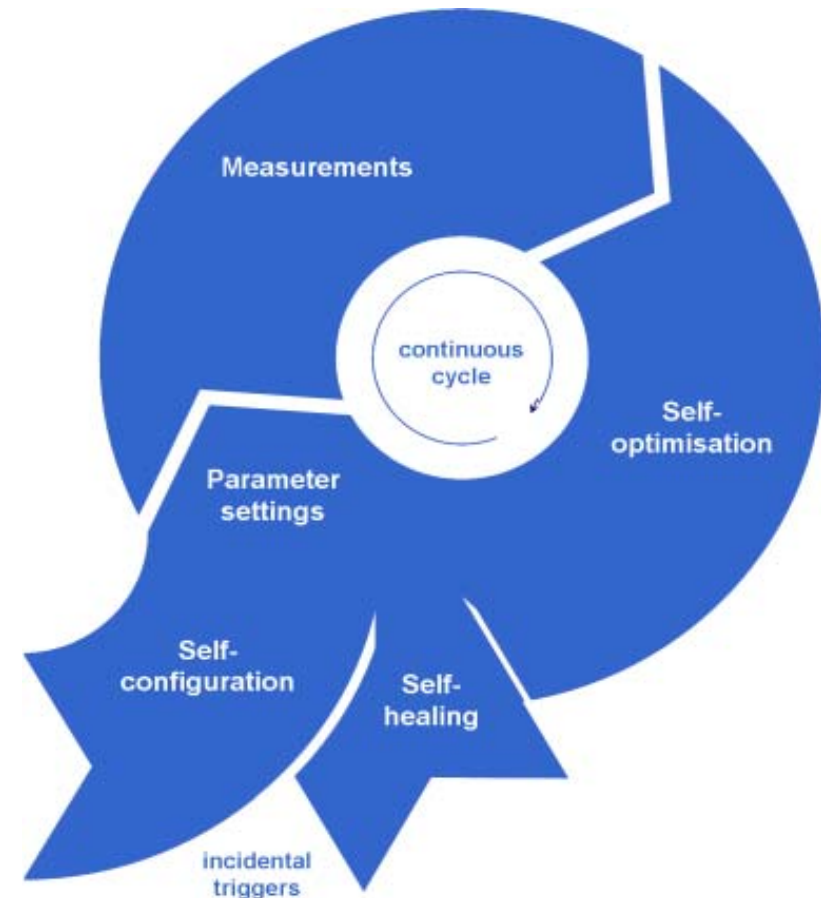
RAS Cluster Meeting  
September 30st, 2009

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# Key Issues

- SOCRATES
  - Self-Optimisation and self-ConfiguRATIon in WirelEss networkS
  - Project duration: From 01/01/2008 to 31/12/2010
- Self-Optimisation
  - Optimising **existing** base stations
  - Antenna, power, neighbour lists, resource management parameters
- Self-Configuration
  - By including **new** base stations
  - Plug-and-play fashion for radio parameters
- Self-Healing
  - Response to site **failure**
  - Adjusting parameters of surrounding sites
- Measurements
  - Indicator for **current** network state



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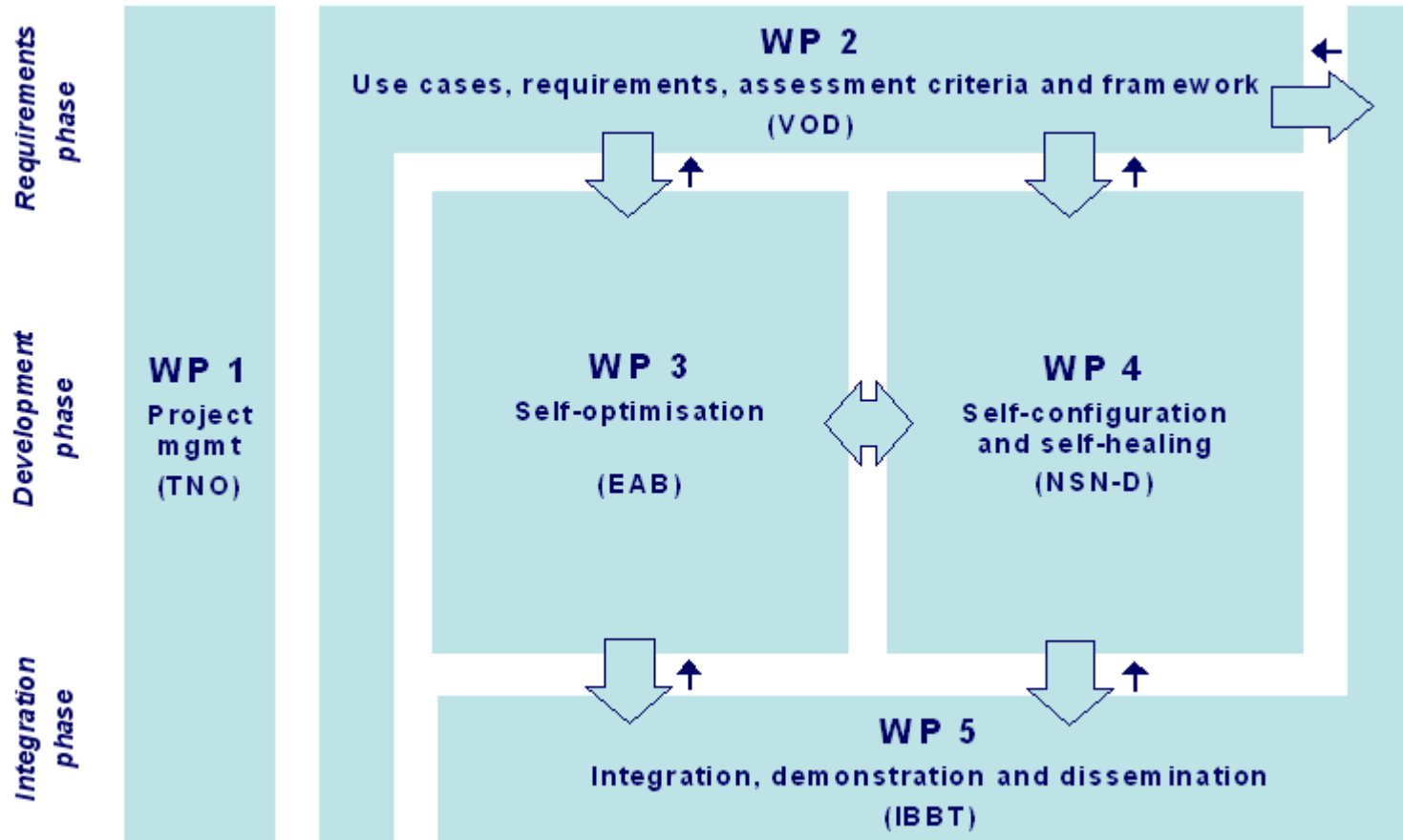
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# Overall Work Plan and Work Packages



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# Self-organising wireless infrastructures

- SOCRATES aims at developing solutions for dedicated self-organisation use cases for 3G LTE networks
- Bottom-up approach: starting point are today's (manual) configuration, fault and performance management solutions
- Definition of requirements and assessment criteria for self-organisation algorithms
- Algorithm development for stand-alone self-organisation solutions
- Interaction between use cases: different configuration and optimisation goals may influence the same parameters, solutions (policies) are required to weight or prioritise between the use cases
- Framework for the integration of self-organisation use cases with existing systems