



Tools for Continuous Performance Auditing

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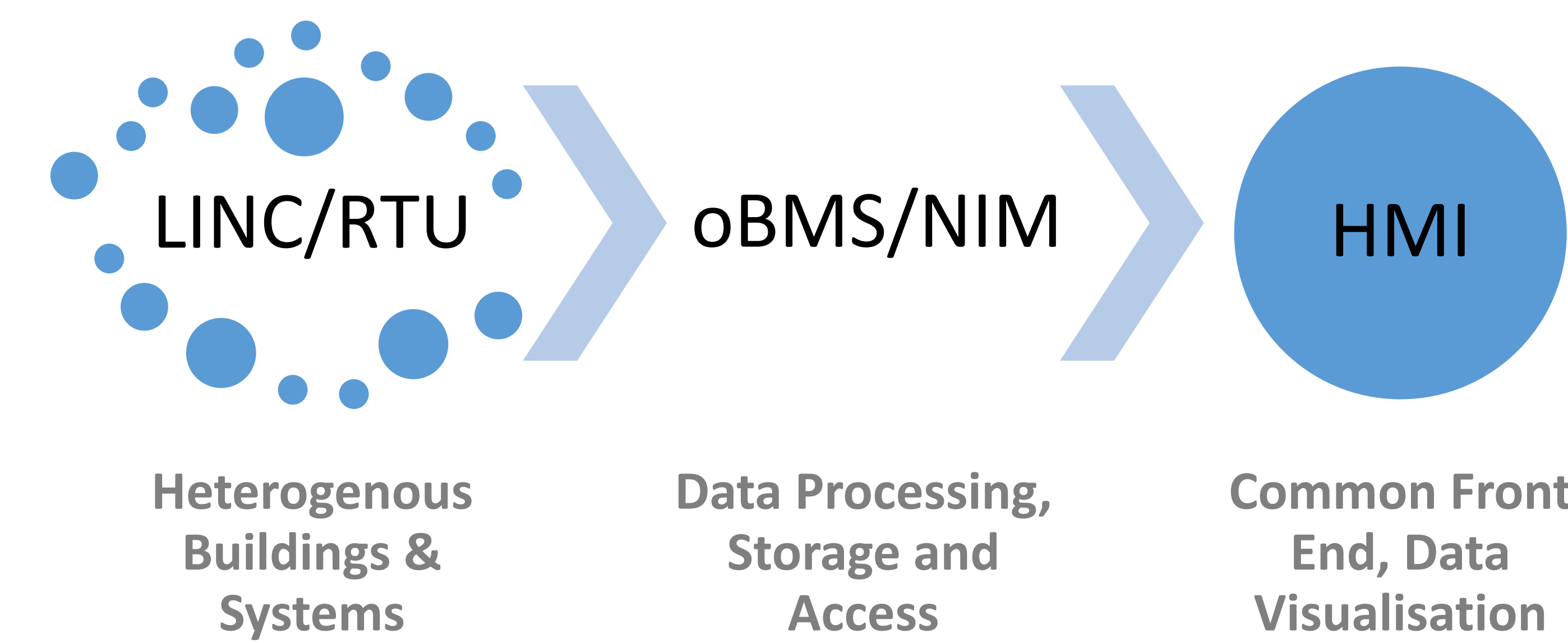
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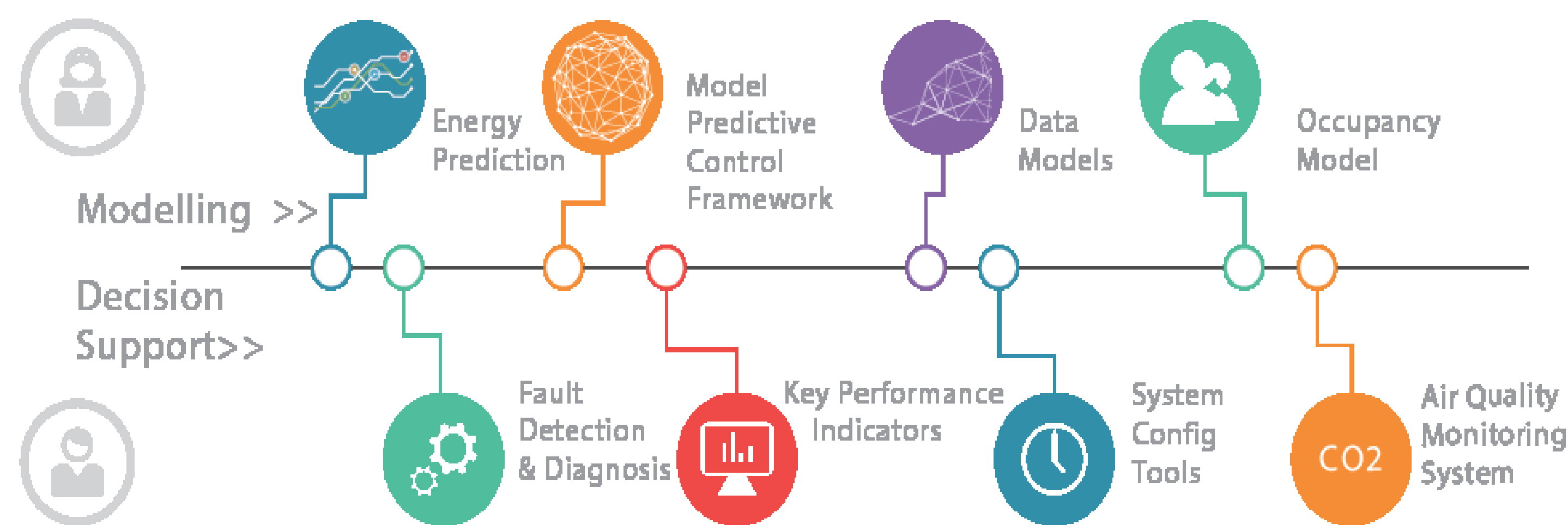


TOPAs aims to reduce the gap between predicted and actual energy usage to 10% and approach energy savings of up to 20%.

- Open building management system - **oBMS** approach for energy management



- TOPAs develops **tools & services** to support the coordinated management of block of buildings



- Reduces administration through self-management
- Globally scalable across existing and new building blocks

TOPAs in Action

- Phase 1:** System/Building connection & connectivity, data sensing & collecting, data transport & access
- Phase 2:** Transform data into actionable insight, models, APIs & processes, services
- Phase 3:** Applications & services – gap reduction, energy saving, FDD, data presentation, intelligent interfaces, create human value

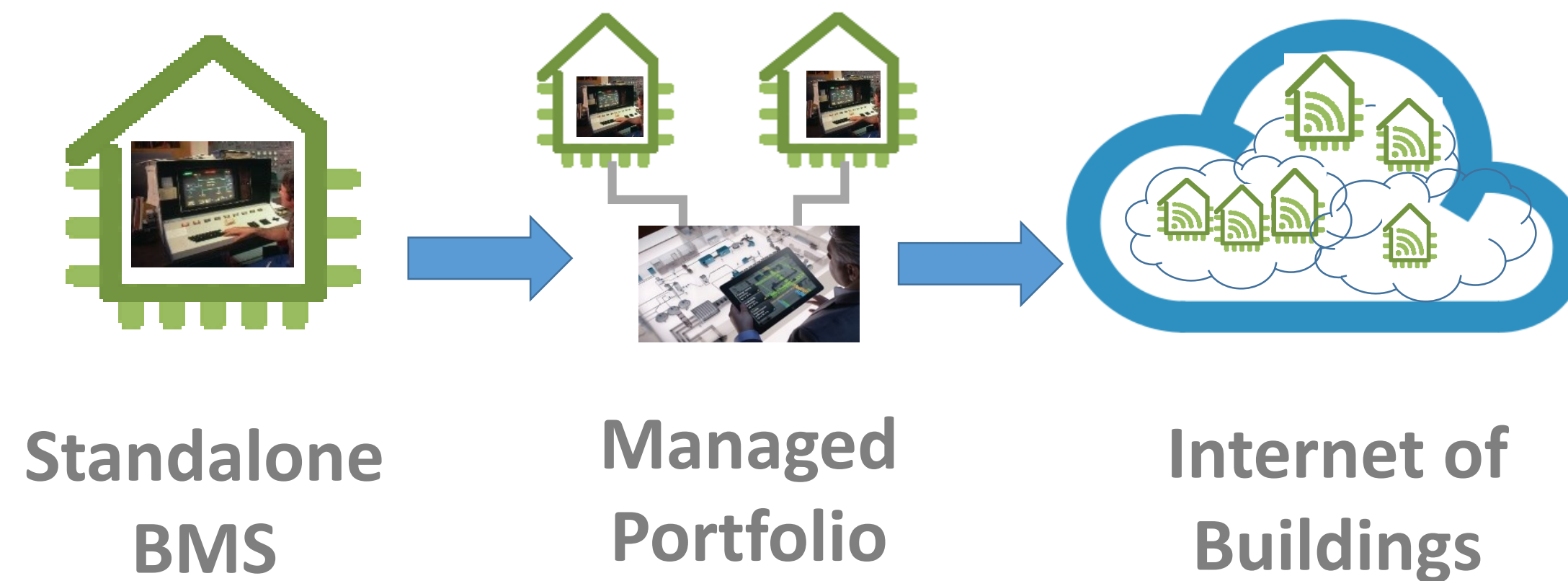


Business Offering

- Building Systems **Integration**
- Real time Energy **Optimisation**
- Energy Performance **Diagnosis**
- Energy Management **Services**



TOPAs will be tested on three representative test sites all consisting of blocks of commercial and/or public buildings.



- TOPAs delivers:
- ✓ **High replicability** potential by simplifying deployment, commissioning
 - ✓ **Extensible modular architecture** - currently deployed across demonstration sites
 - ✓ The TOPAs **energy efficiency measures** while improving the quality of the building stock also target **improving indoor air quality**