

Promoting Interoperability Standards In The Residential Sector

TAHI proposes to take a lead in facilitating interoperability in the smart homes market.

This will pave the way for the rapid development of the market as well as help enable energy conservation and carbon emissions reductions.

TAHI



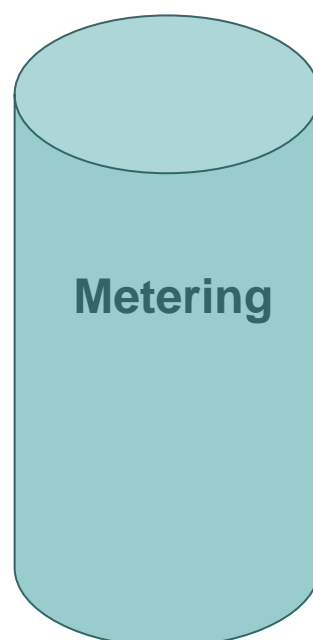
Existing Silos – no interoperability



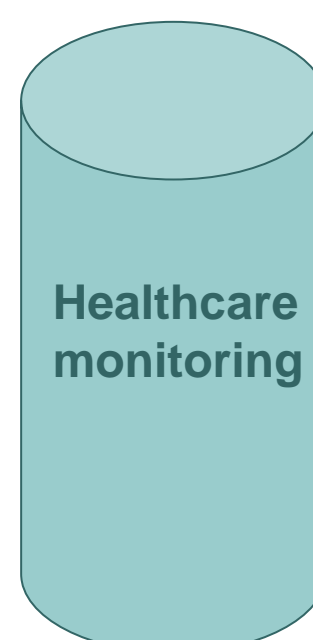
**Installed by
security
specialists**



**Installed by
plumbers**



**Installed by
utilities'
agents**



**Installed by
local
authorities
agents**





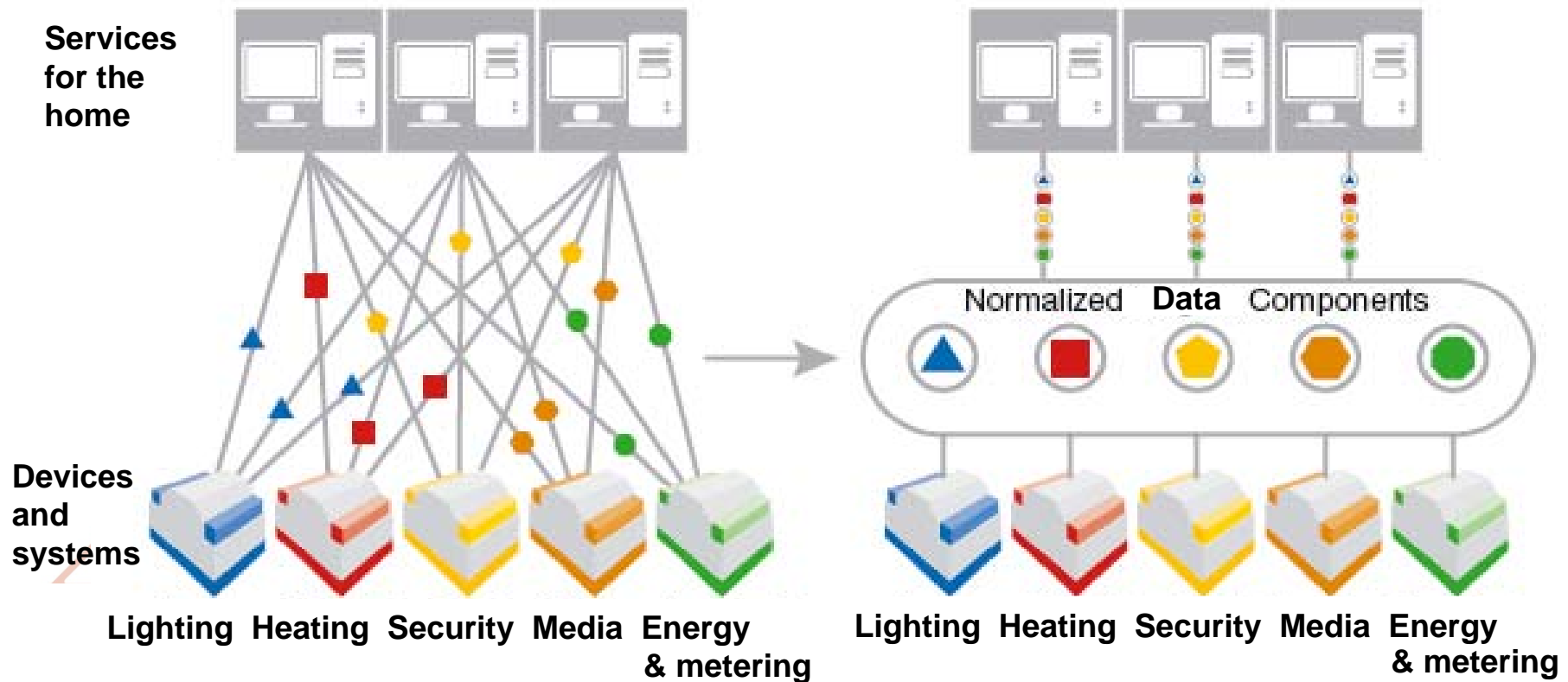
The Interoperability Problem and the Solution

Now

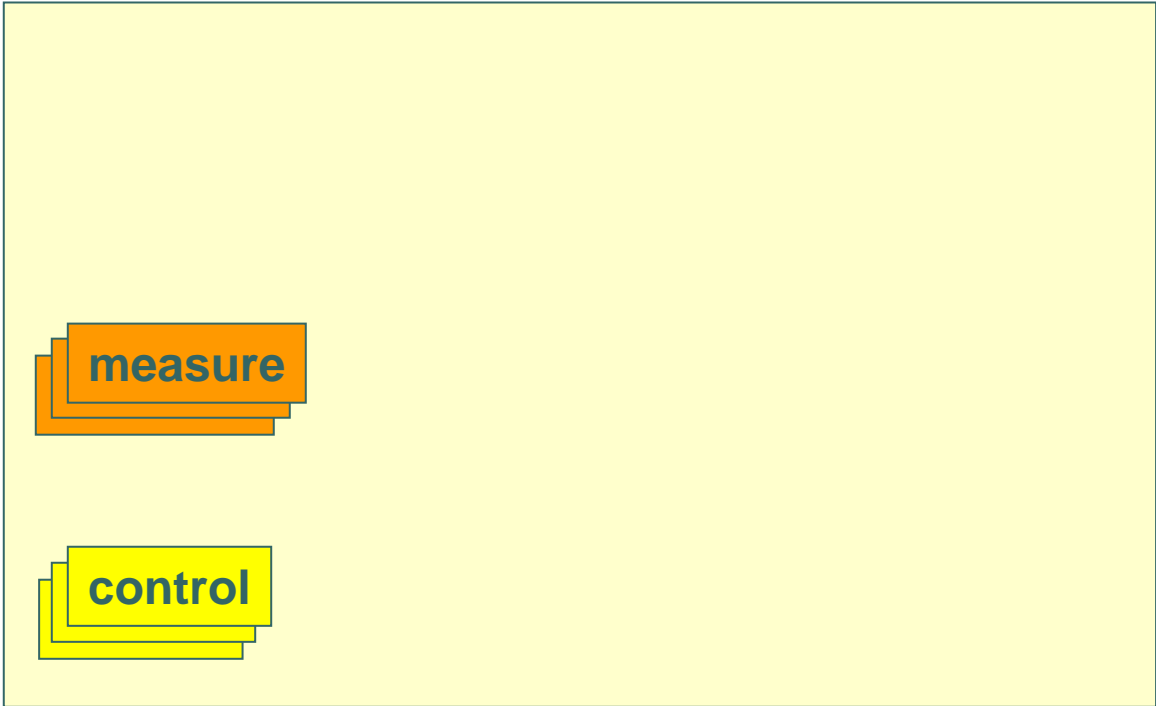
Lots of connections, complexity and cost
- creates barriers to customer take-up

Interoperability Framework

Simplified interfaces; lower barriers
greater, faster customer take-up

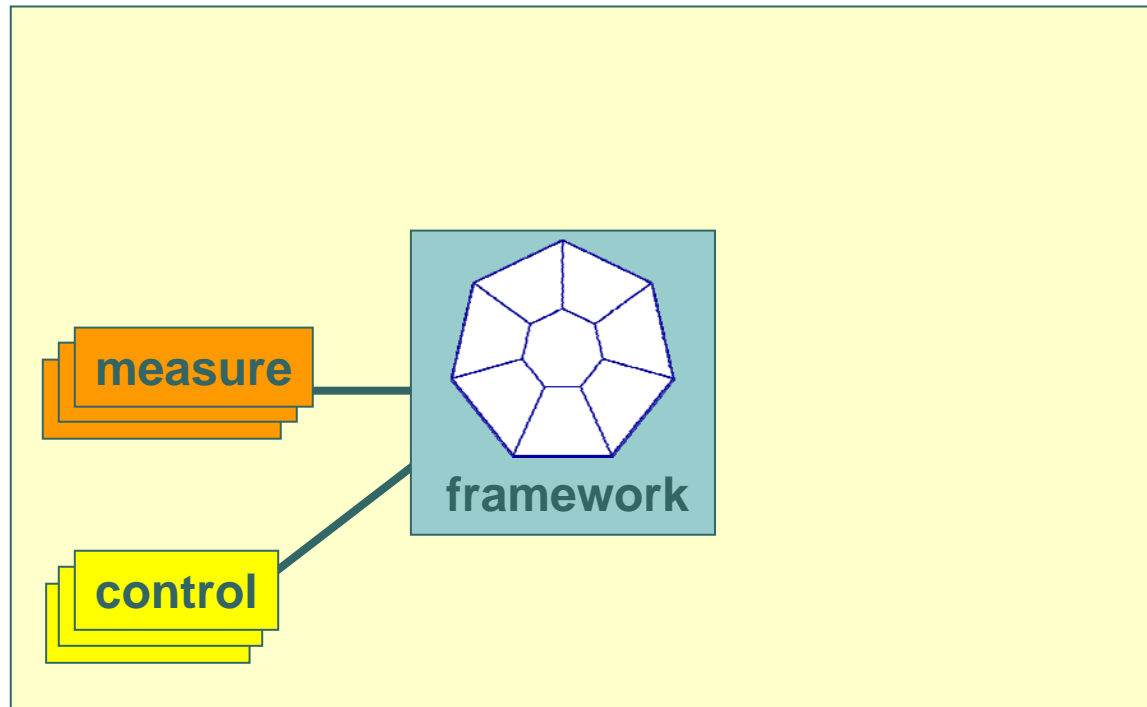


● ● ● | Infrastructure for Smart Services

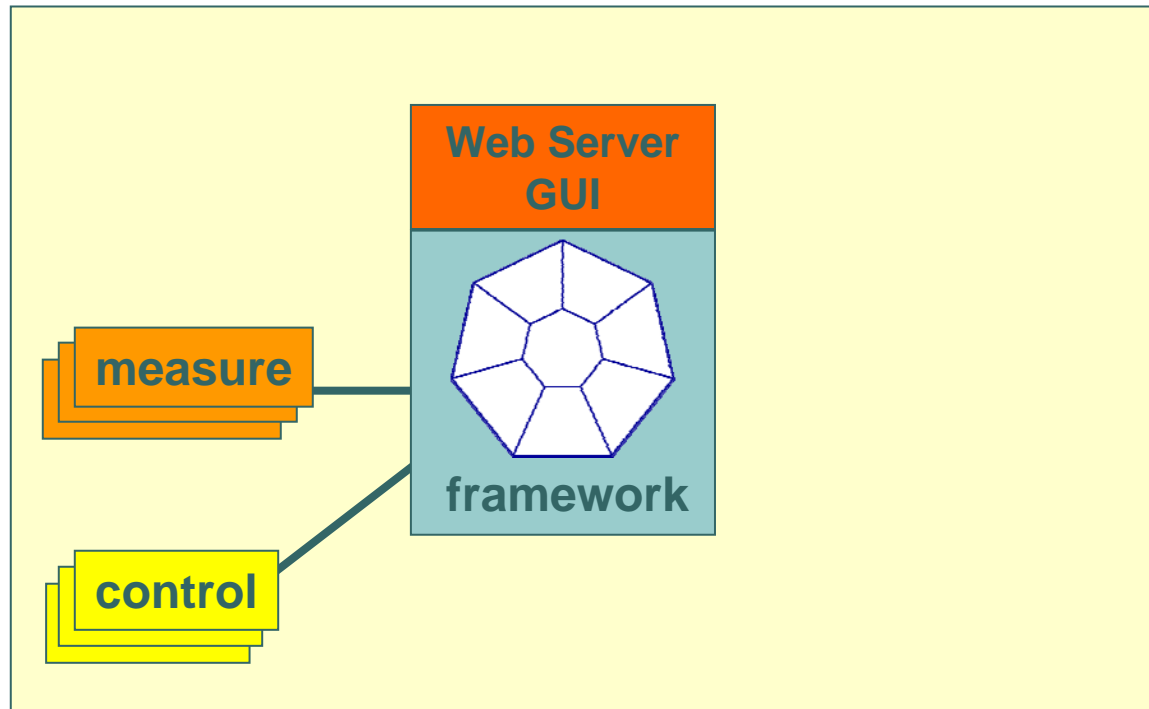




Infrastructure for Smart Services

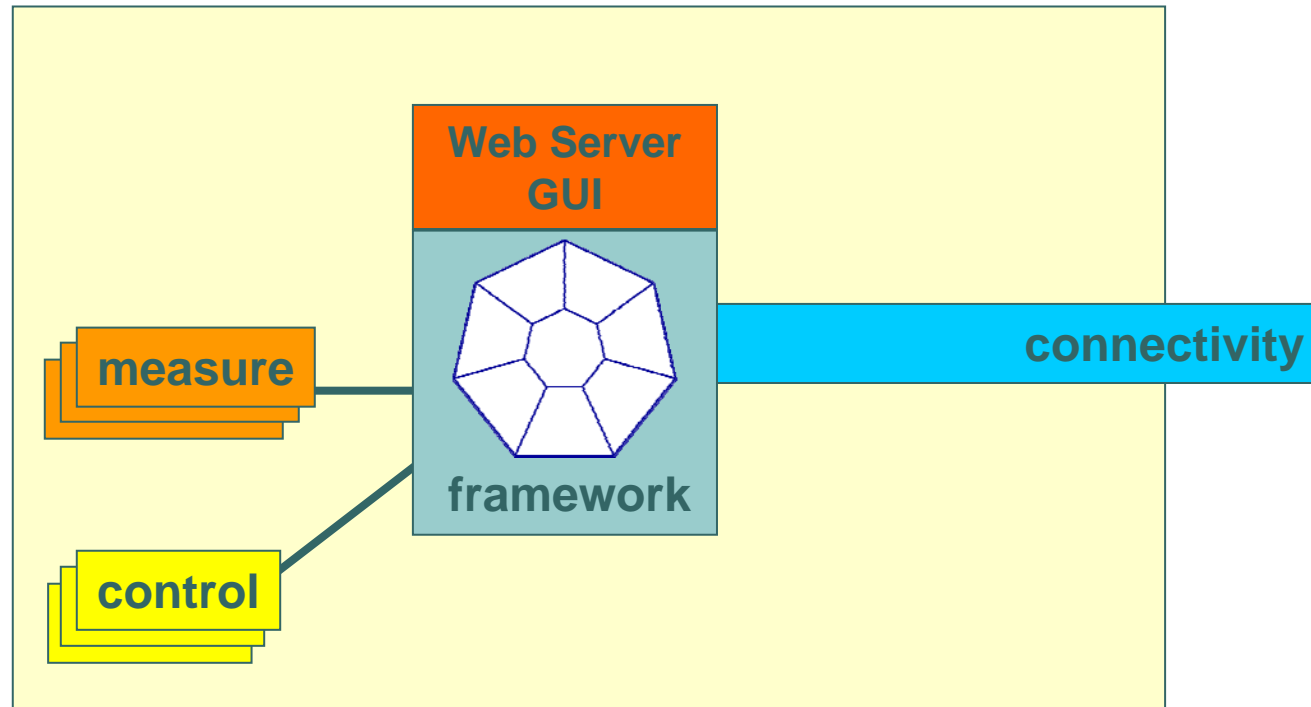


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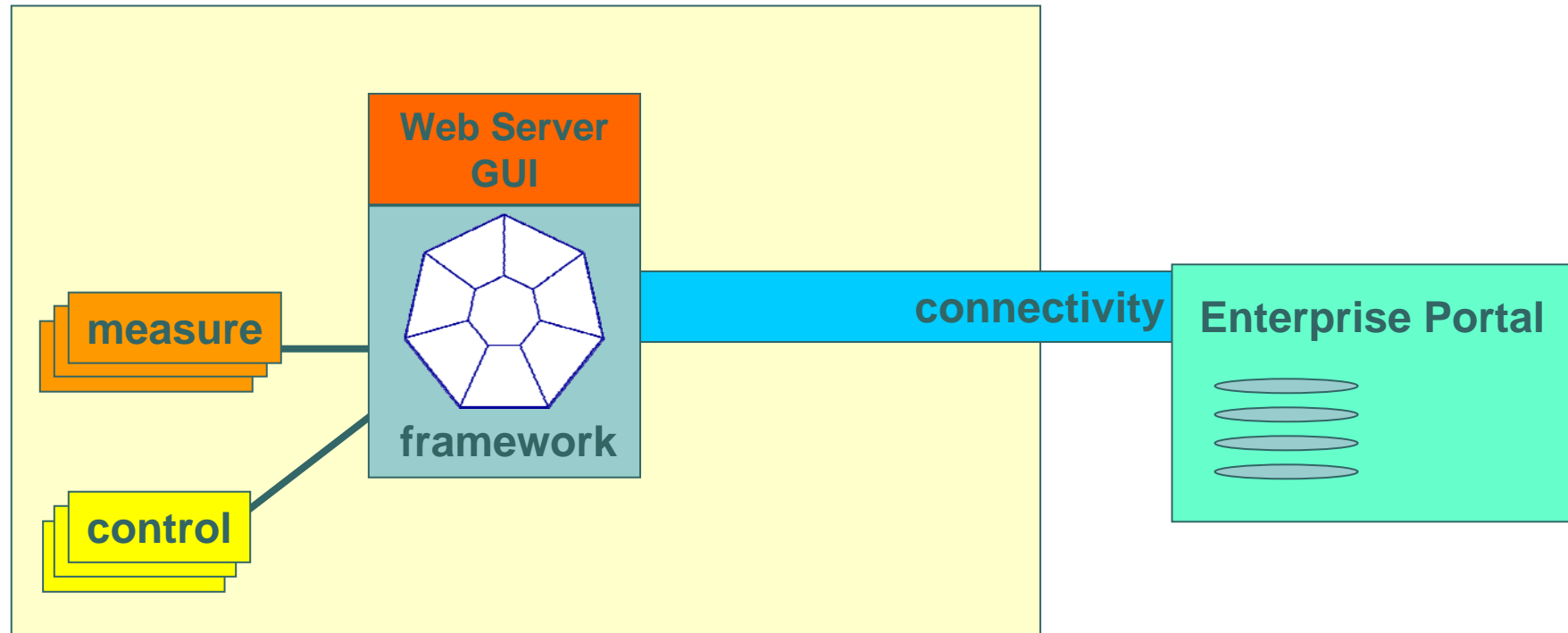


Infrastructure for Smart Services



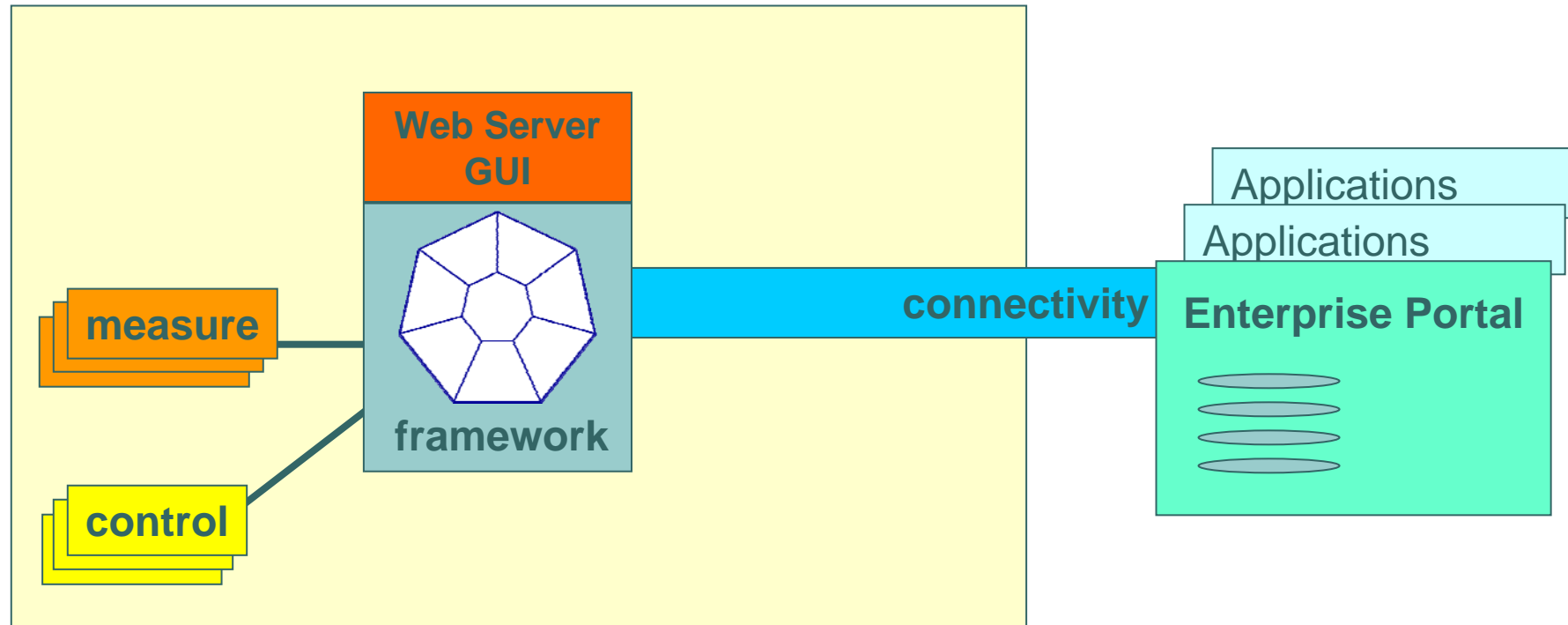


Infrastructure for Smart Services



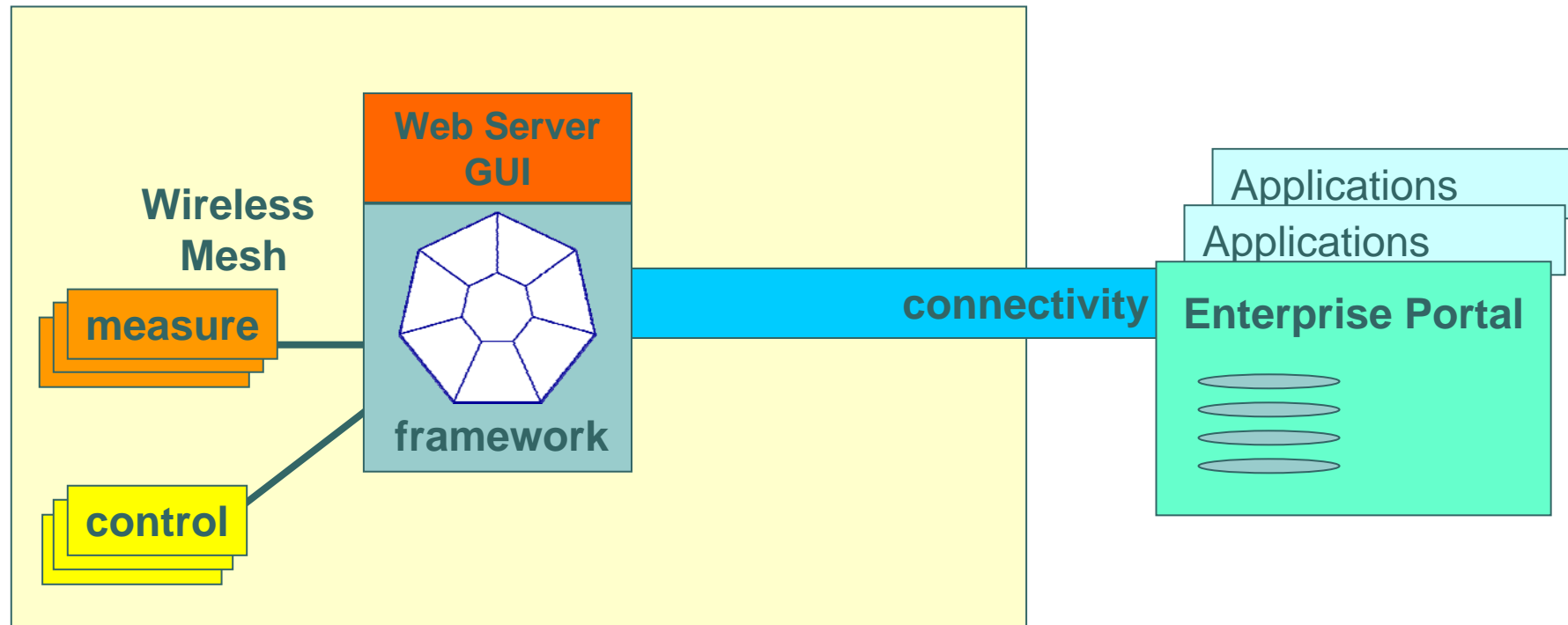


Infrastructure for Smart Services

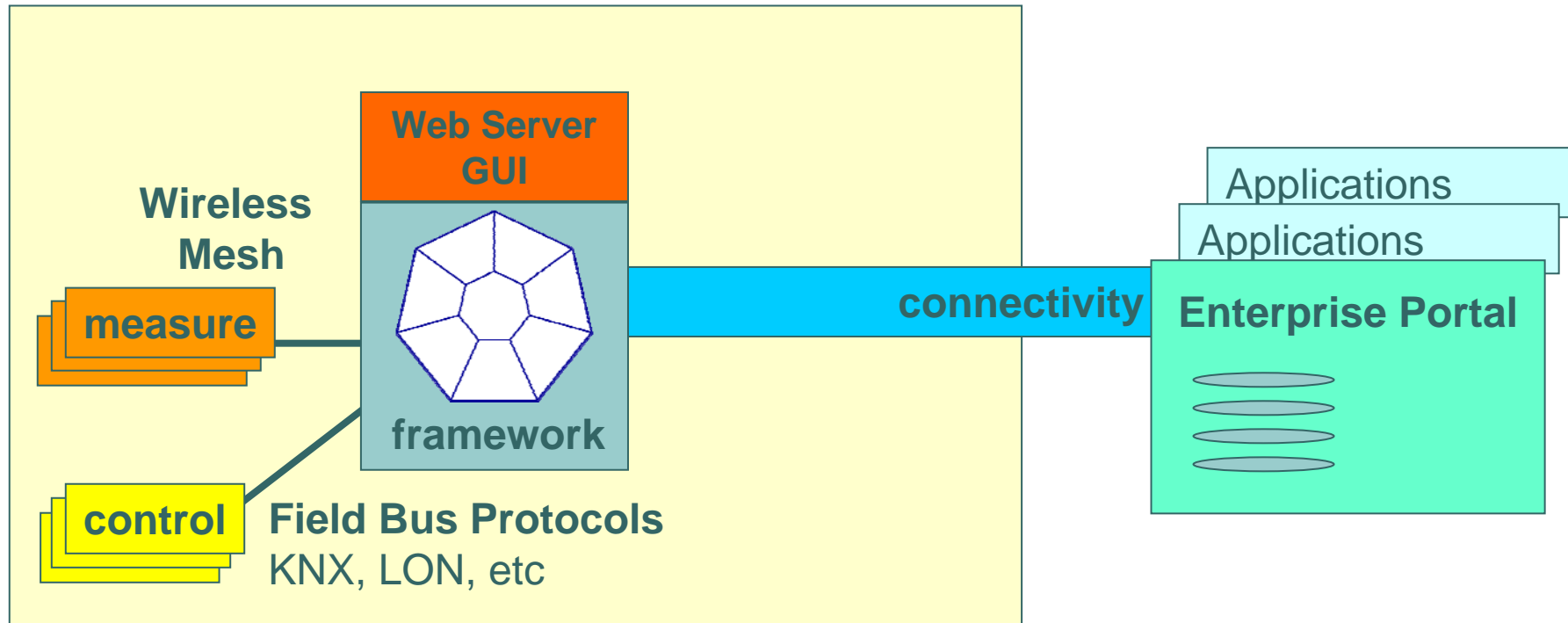




Infrastructure for Smart Services

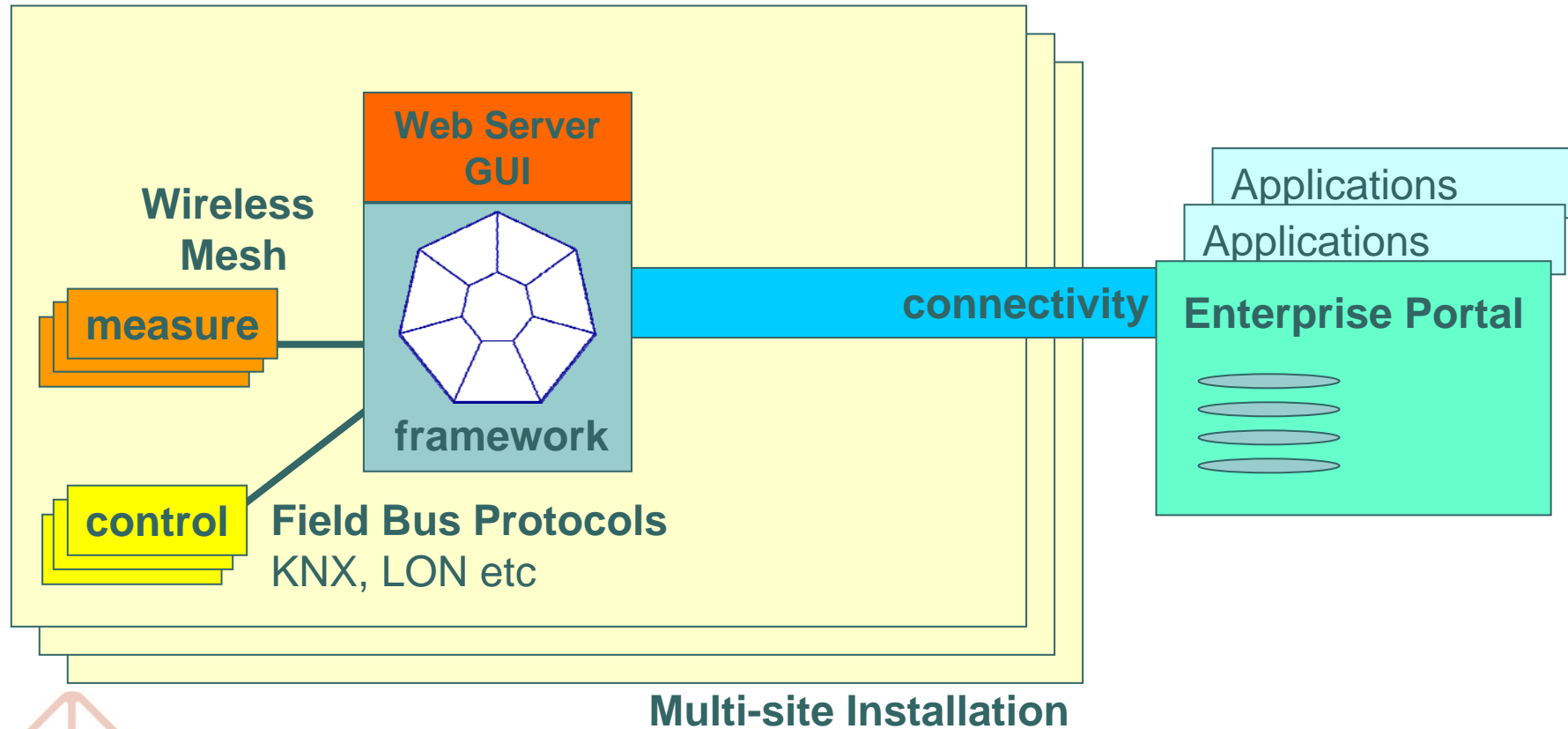


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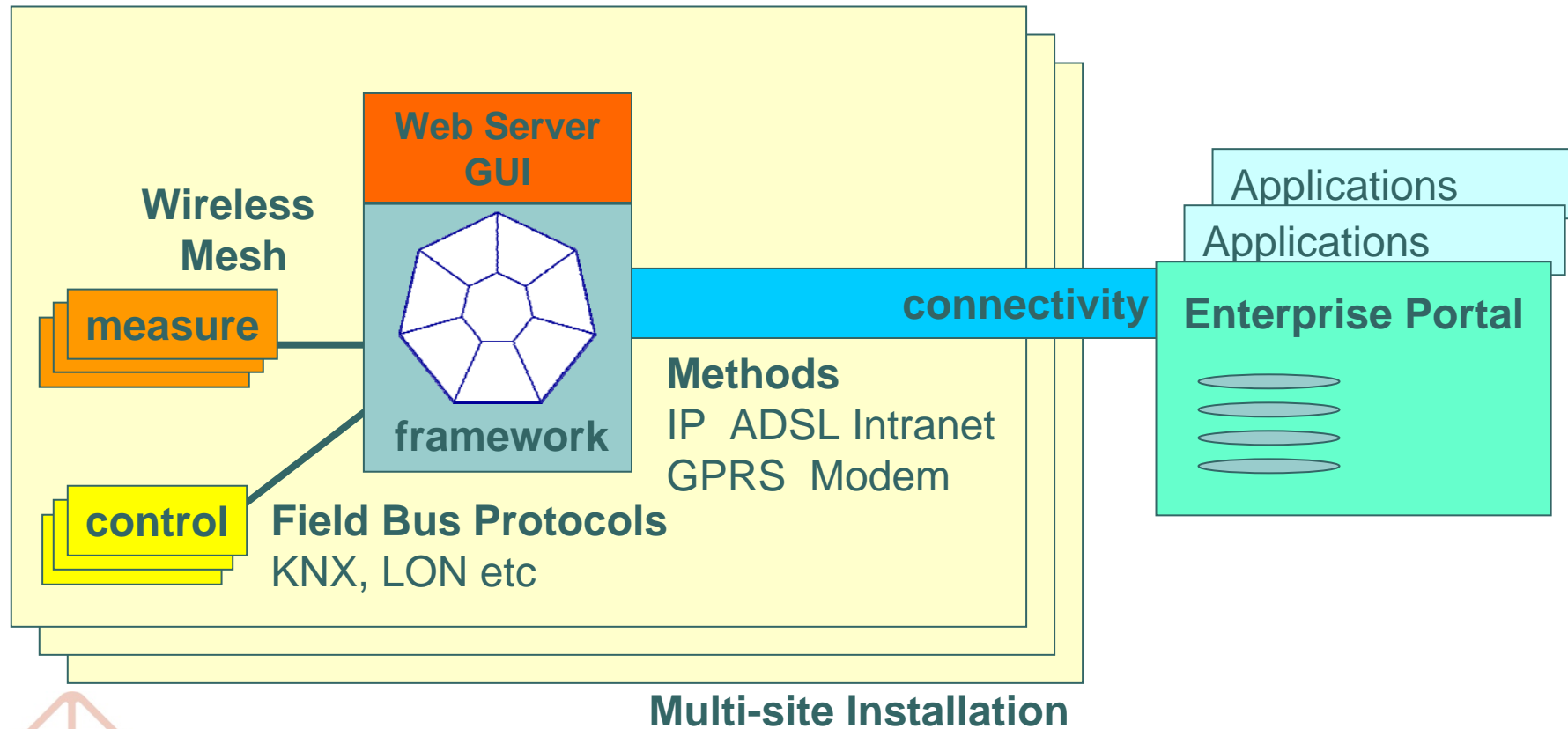


Infrastructure for Smart Services



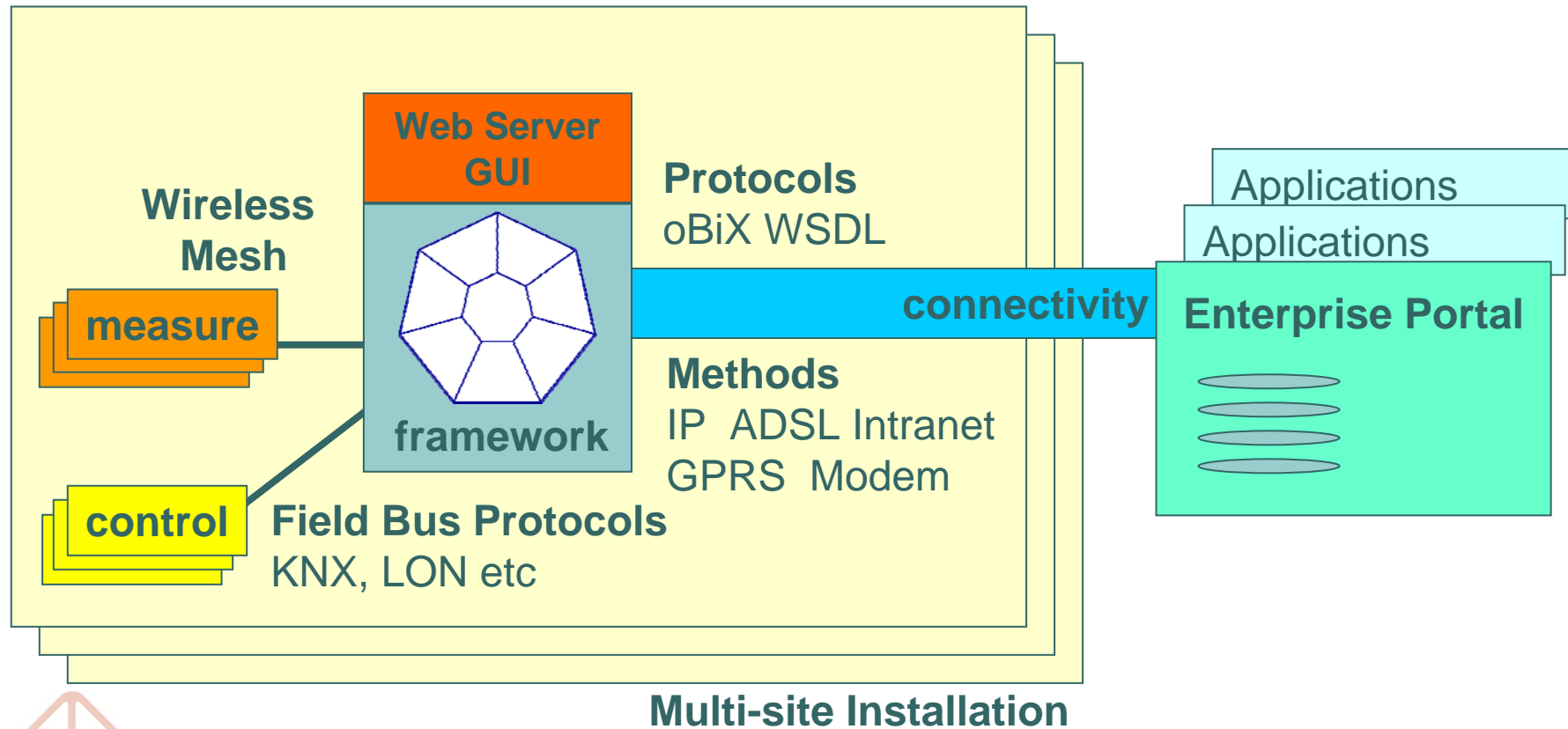


Infrastructure for Smart Services



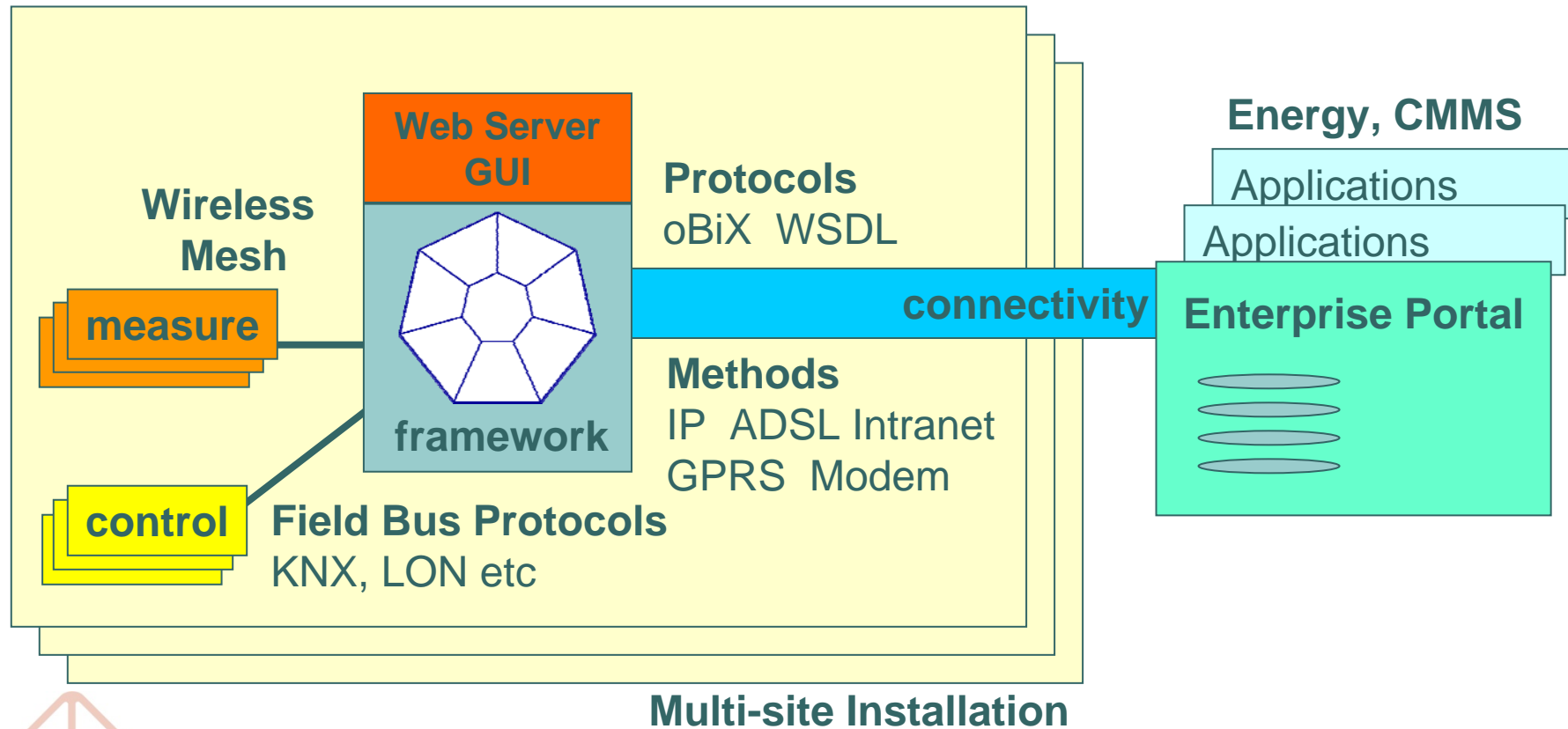


Infrastructure for Smart Services





Infrastructure for Smart Services





Simple example of Interoperability

- Occupancy detectors are used in separate systems to:
 - raise alarm – security systems
 - turn lights ON/OFF – building controls
 - turn heating ON/OFF - energy management
 - room occupancy – care systems
- With interoperability a single device could support all these services
- Benefits: cost, installation, simplicity





The Business Case for Interoperability

- Reduction in development costs and timescales
- Greater market opportunities
 - JVs, partnerships, joint development etc.
- Market acceleration
 - Many manufacturers are holding back investment due to lack of clear standards
- Higher faster customer acceptance
 - Lower costs
 - Greater choice
 - Lower risk of choosing wrong solution





The Wider Benefits of Interoperability in the Home

- Economic
 - Growth market - new jobs – increased GDP
 - UK businesses could lead the European market
- Social
 - Social care, security, monetary savings etc across all social groups
- Environmental
 - Energy efficiency of the whole home leading to reduced carbon emissions

