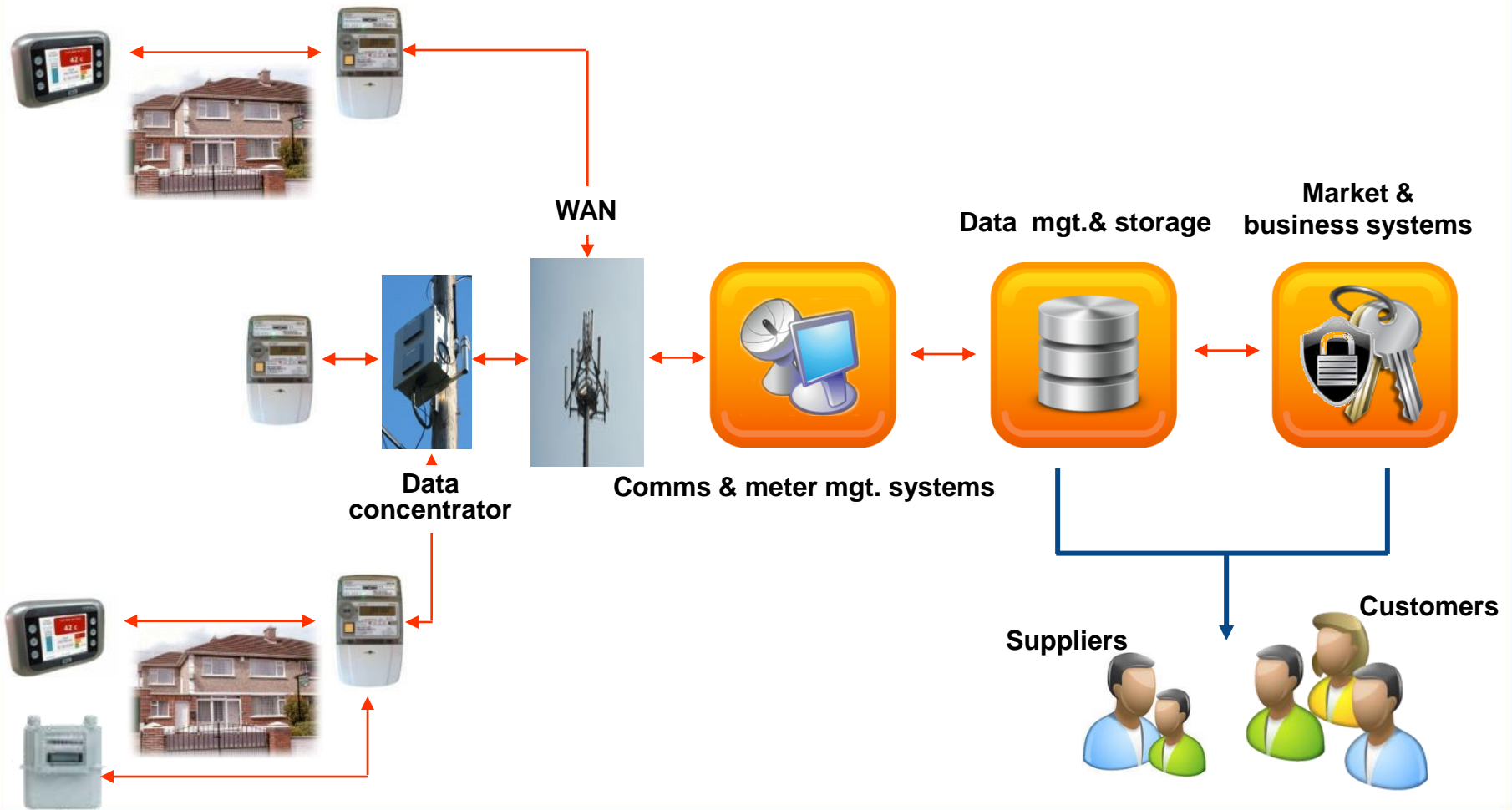


# Smart Metering Technology Trial

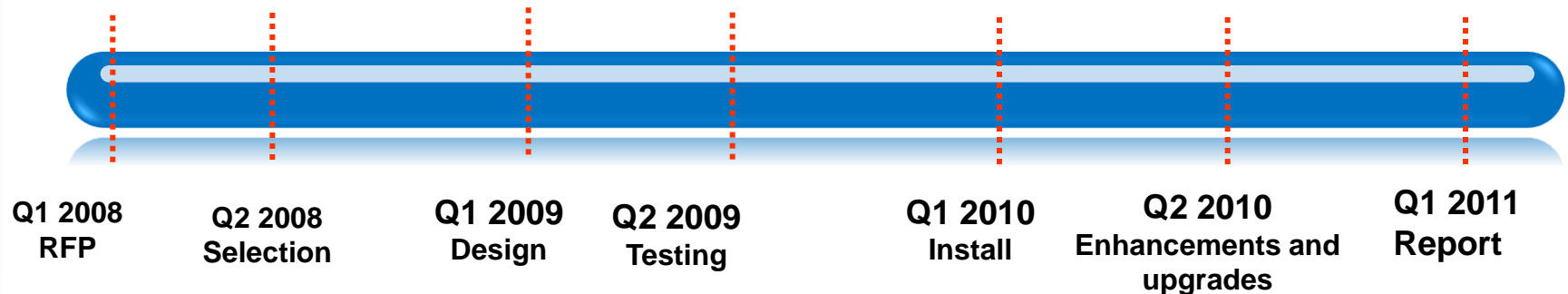
**Neil Mc Guinness,**  
Manager, Smart Metering Project, ESN  
30<sup>th</sup> May 2011

# Smart metering system - Overview



# Technology trial - Overview

- Learning
- Communications assessment
- Technology : risks & issues
- CBA



# Trial Scope

## Systems and meters

- GPRS - 6000
- PLC - 1500
- RF – 2500
- Desktop studies
  
- Smaller prepay and dual fuel trials

## Functionality

- Daily collection of data
- On demand operations



**Power Line  
Carrier**



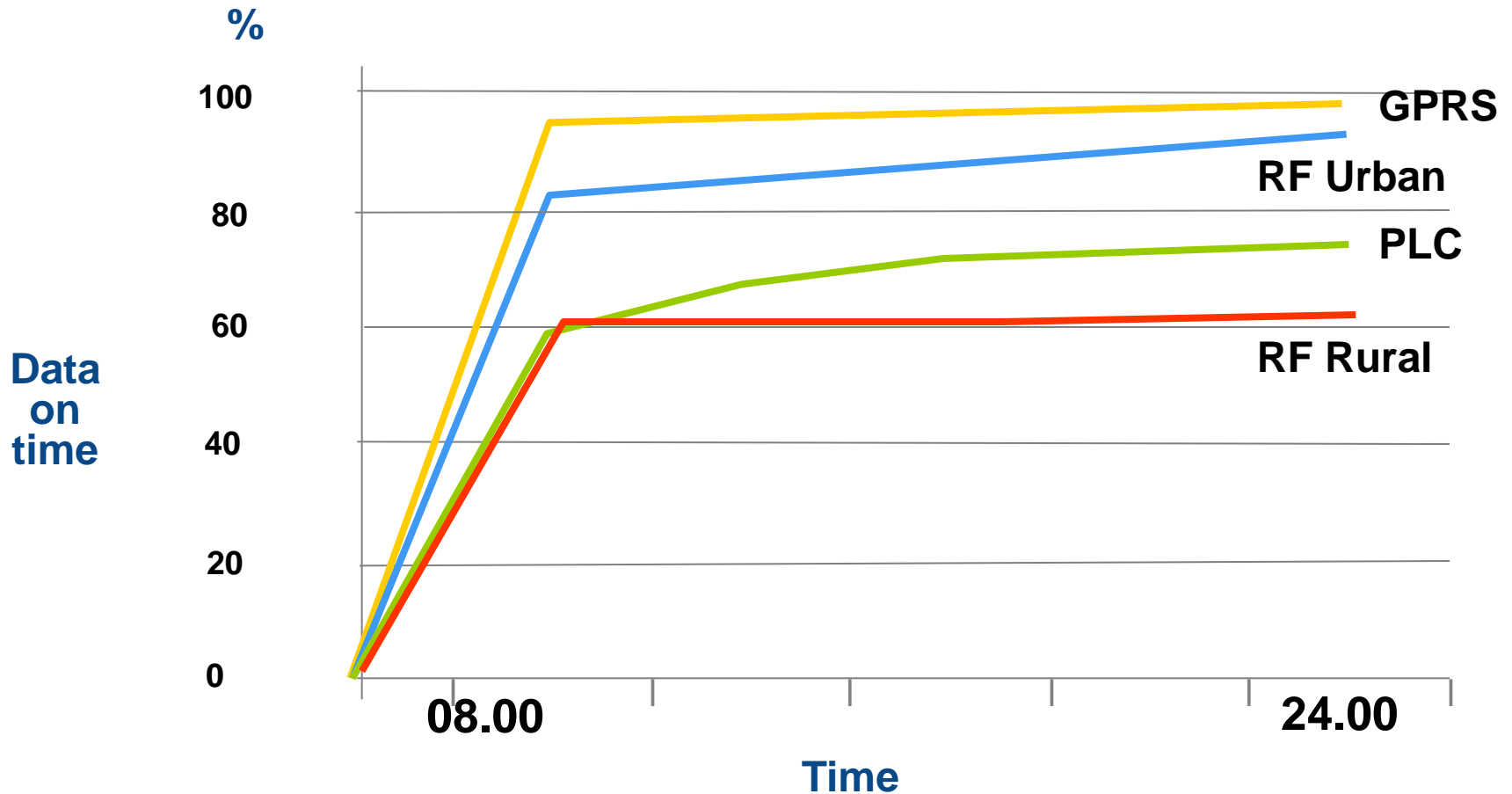
Power Line  
Carrier







# Indicative Daily Data Collection observed in trial



# Lessons learnt from Technology trial



Installation process went well  
IT systems will be available  
Extensive test program justified  
Meter functionality

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Available communications technologies all have issues  
Need standard based products  
Security

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Next generation power-line carrier for urban solution  
Wireless spectrum availability for rural solution  
IP based networks  
Scope and performance requirements

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# In Summary

- **Pilots successfully delivered**
- **Key input to CBA**
- **Risk management**
- **Build on lessons learned**