SYNAPTIC TECHNOLOGIES AS

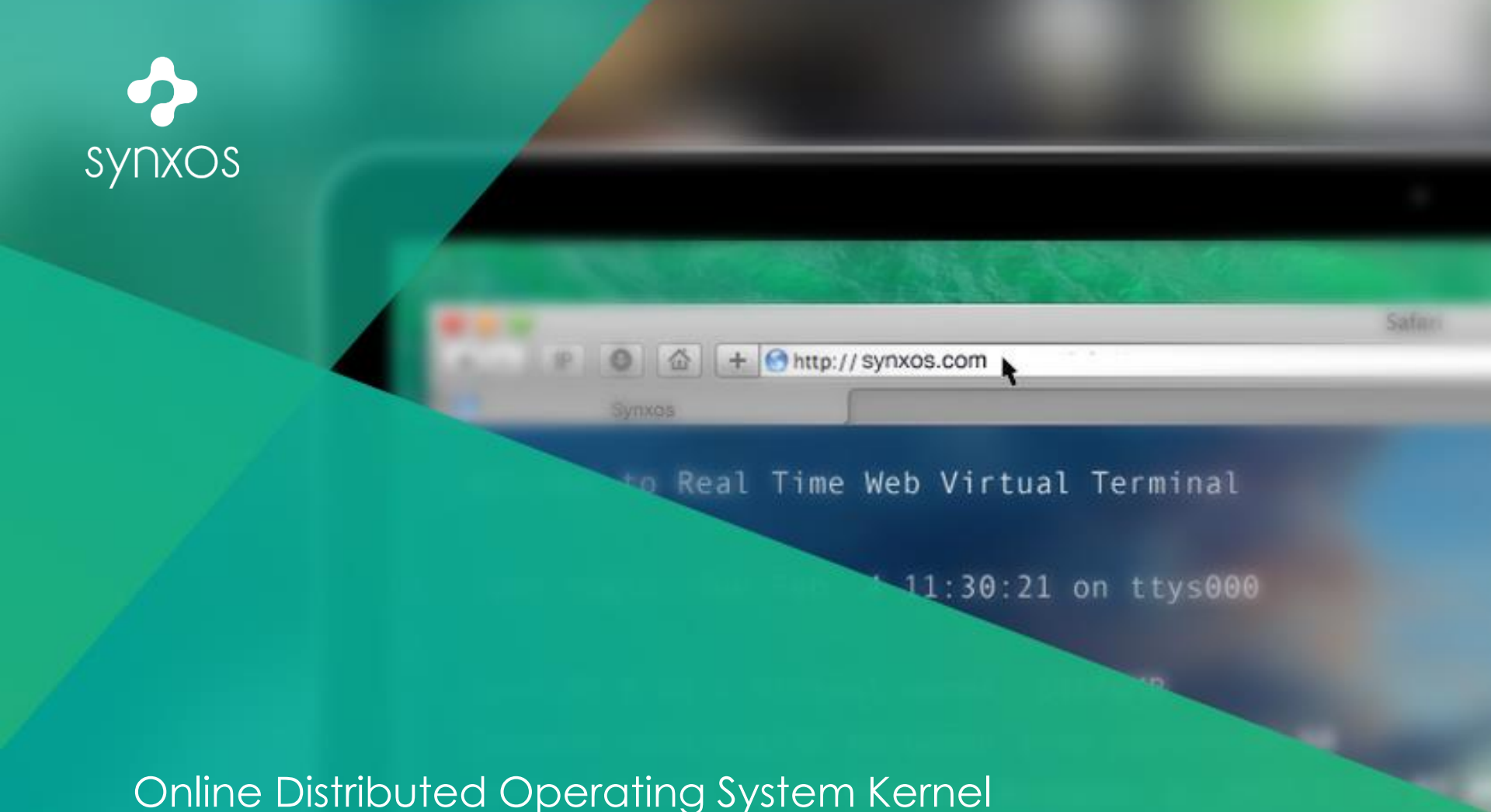
nornir

P.K. LEVANG PRESENTS:

Physical Web & Internet 4.0

Value Creation Network
Internet of Things

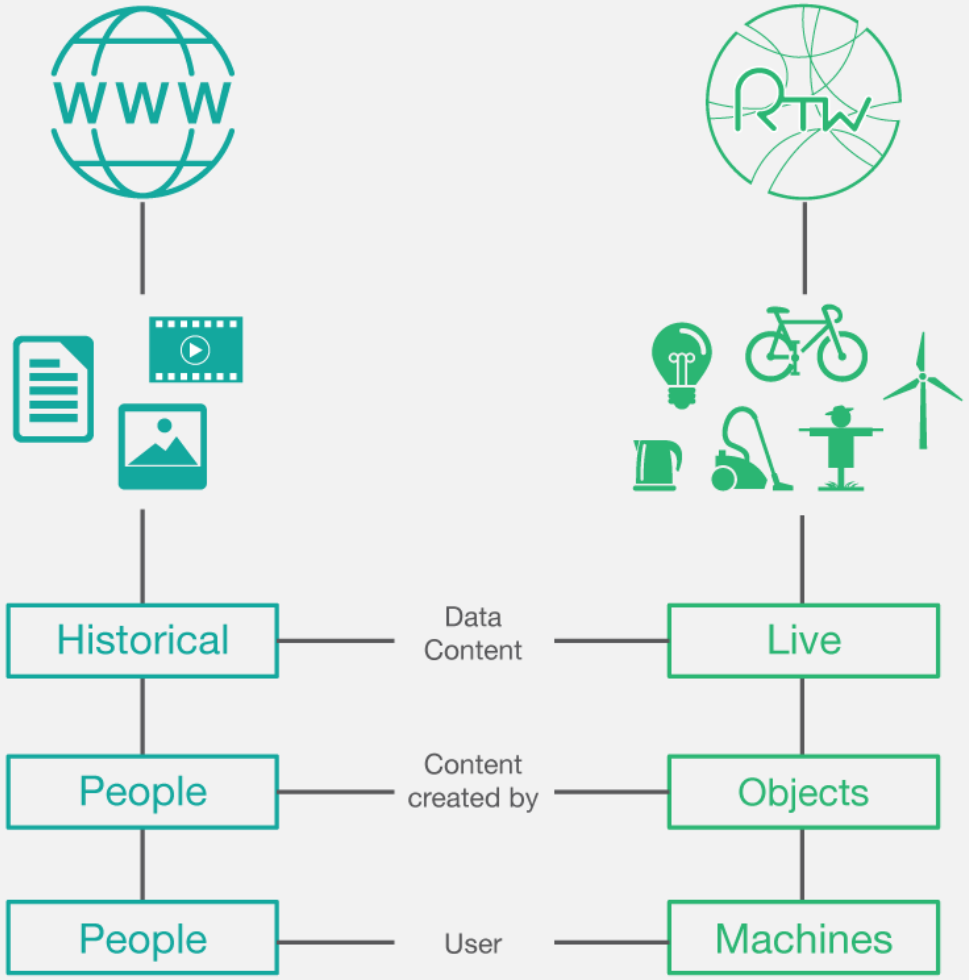
synxos



Online Distributed Operating System Kernel

SYNX BIOS – REAL TIME WEB ENABLER

New Web for Machines



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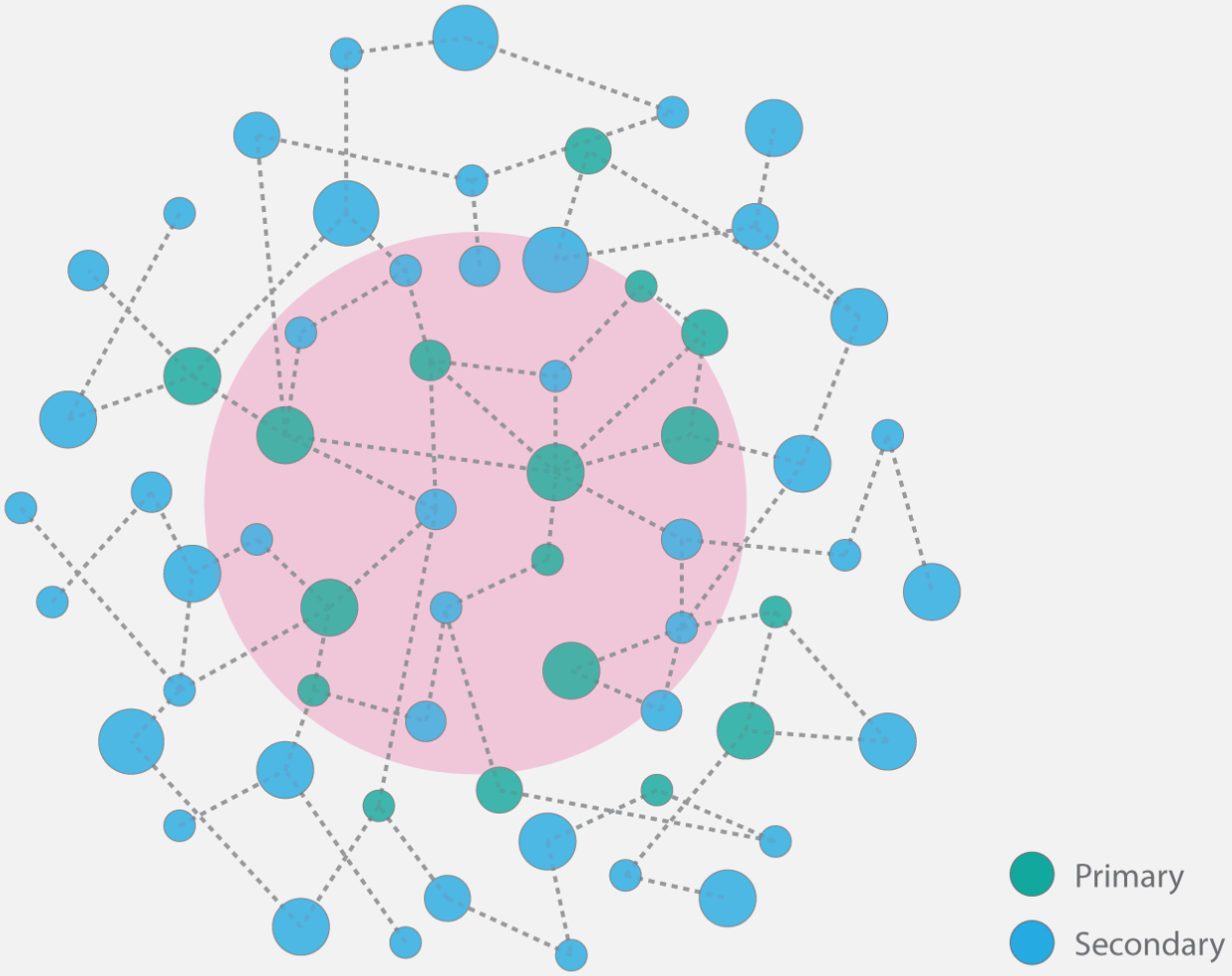
RTW Open Network



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WWW- Addressing Information

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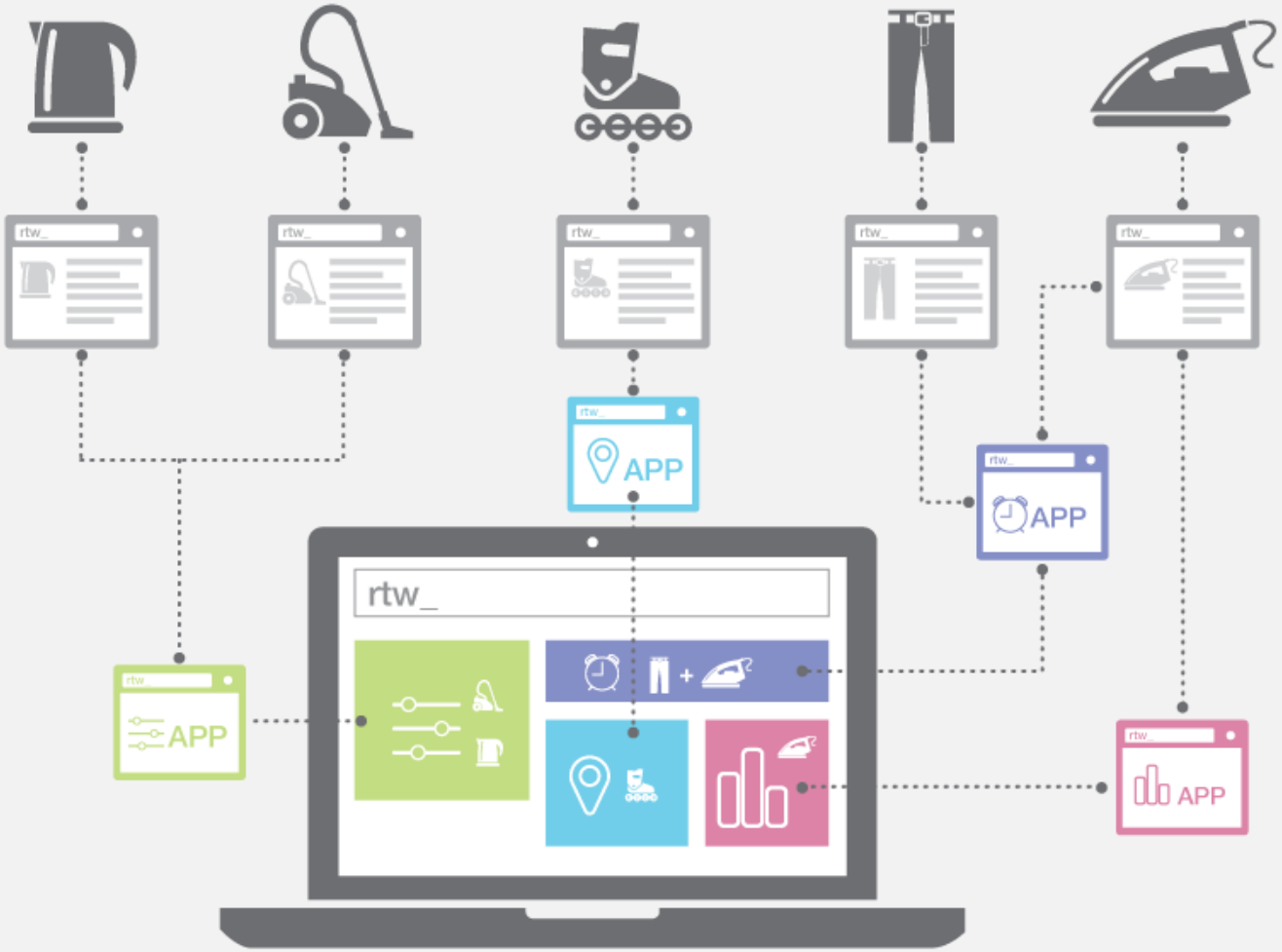
RTW – Addressing Data Source



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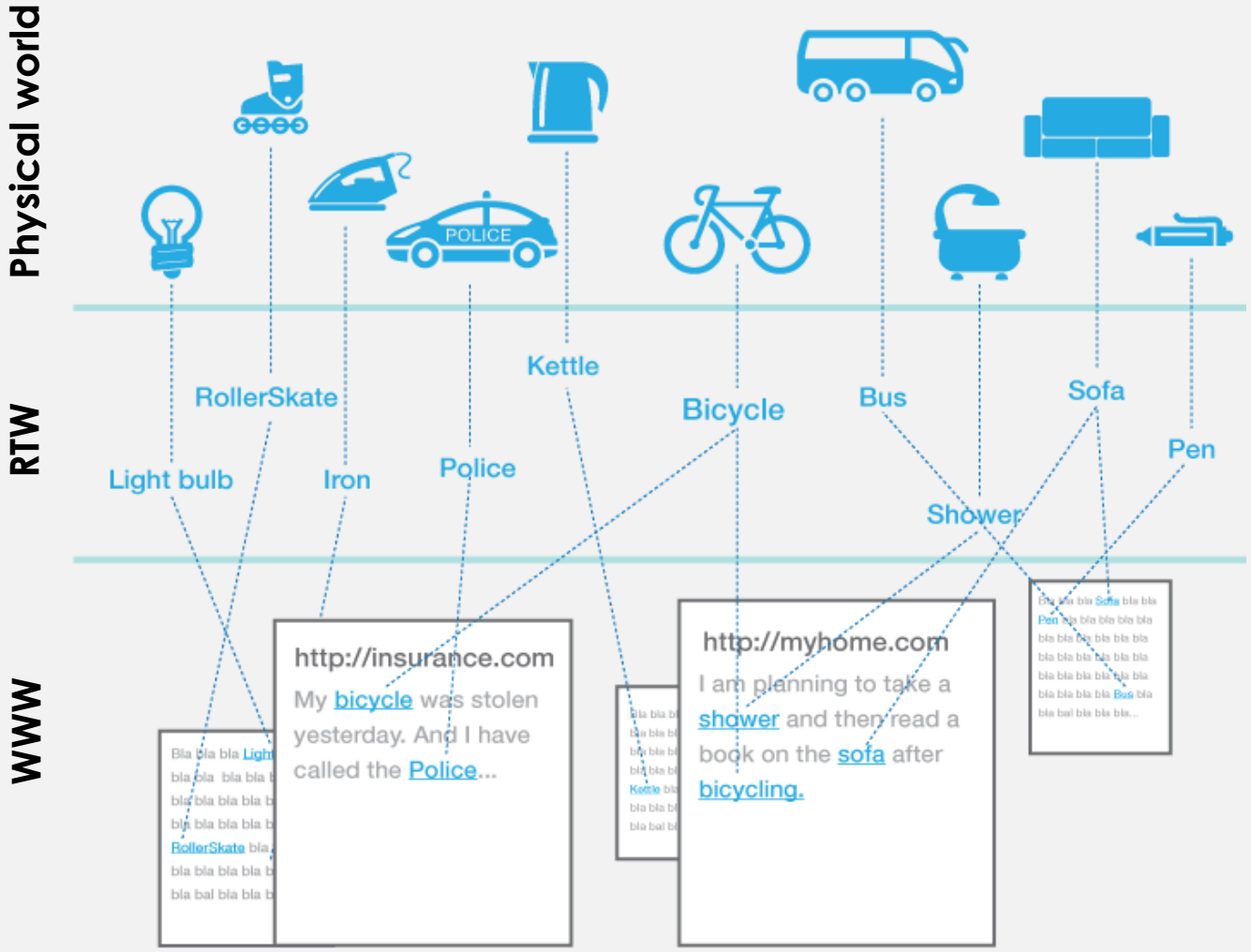
Web - Your Personal Computer



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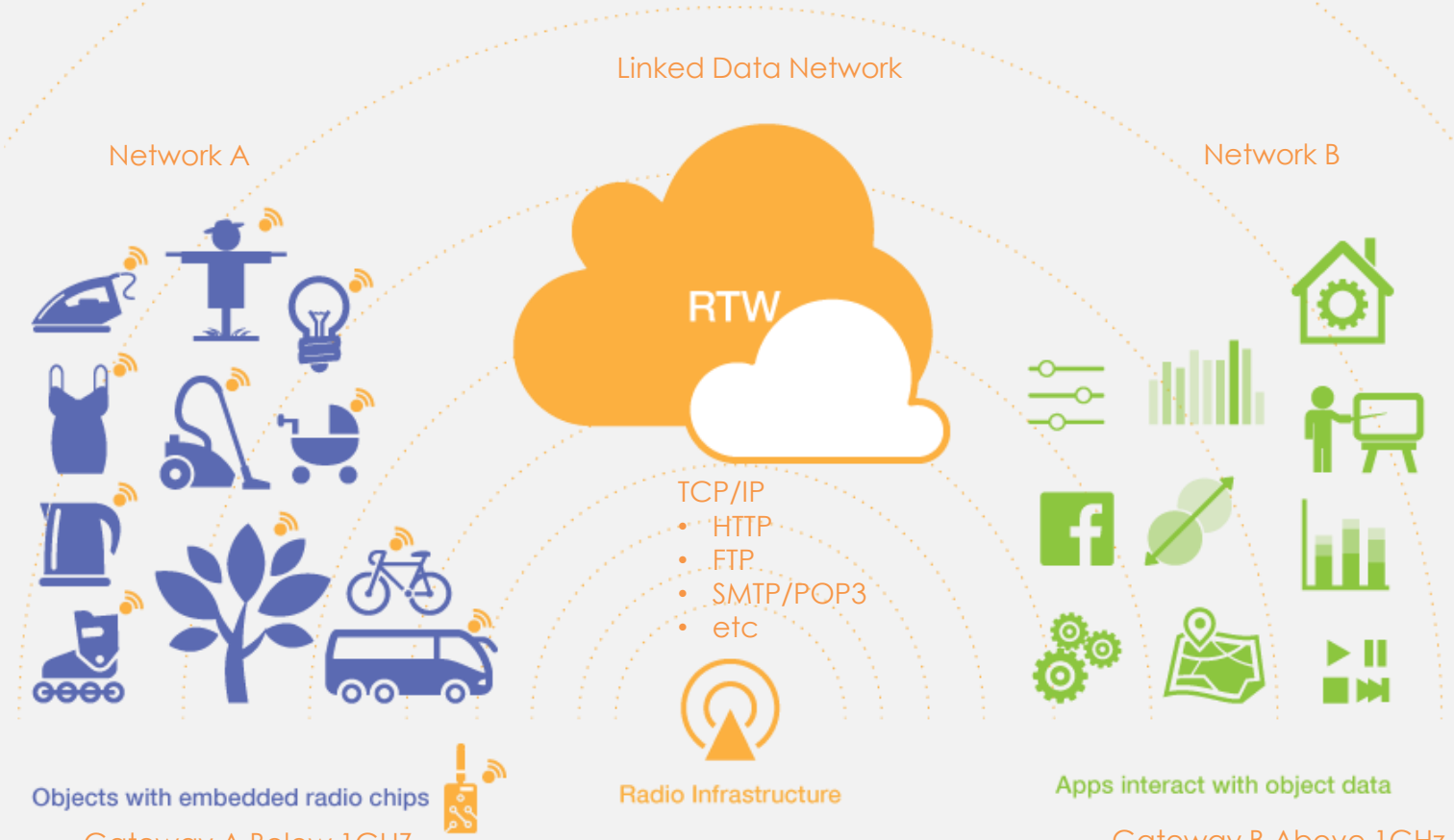
Backward Compatible WEB



Gateway A Below 1GHZ
- Dash7
- Zigbee
- Sigfox
- TinyMesh
- etc

Gateway B Above 1GHz
- WIFI
- 3g/4g
- Bluetooth
- etc

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Developer Tools For RTW

synxos

draape

cybernetdomain

RTW OBJECTS

RTW Ecosystem

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Synx BIOS Advantages

Benefits:

- Reduce Cost and Time
- Scalability and Speed
- Monetization/Trade of Data
- Increased Privacy/Security

Features:

- No Web API
- No Middleware
- Bidirectional Linking
- Web Becomes “one Machine”
- Authentication/Identification

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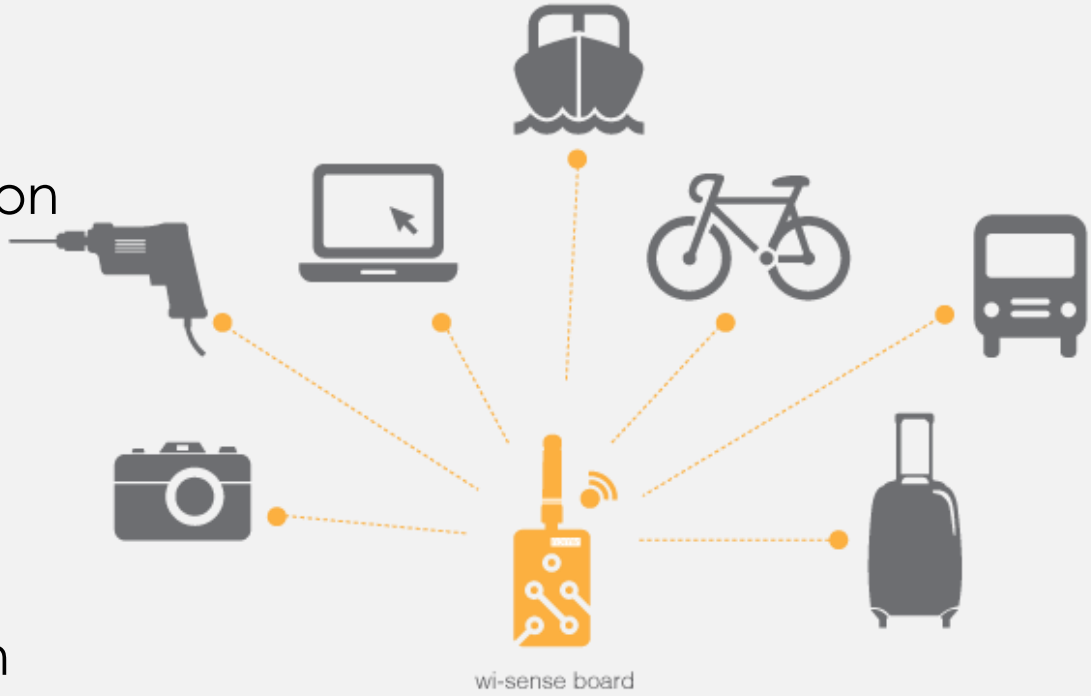
RTW Objects Advantages

Benefits:

- Long Lifespan
- Small Size
- Low Energy Consumption
- True Real Time Data



Features:

- Energy Harvesting
- Long Range
- Indoor/outdoor Position
- High Speed Distribution

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Semantic Triplets (runtime)

Subject:
HOTWATER.com/ServiceA (Sensor)
PLUMBERS.com/ServiceA (APP)

Object:
The Water Heater
The Smart Phone

Predicate:
tempBinary2Kelvin (Agent for Sensor)
tempKelvin2Celcius (Agent for APP)

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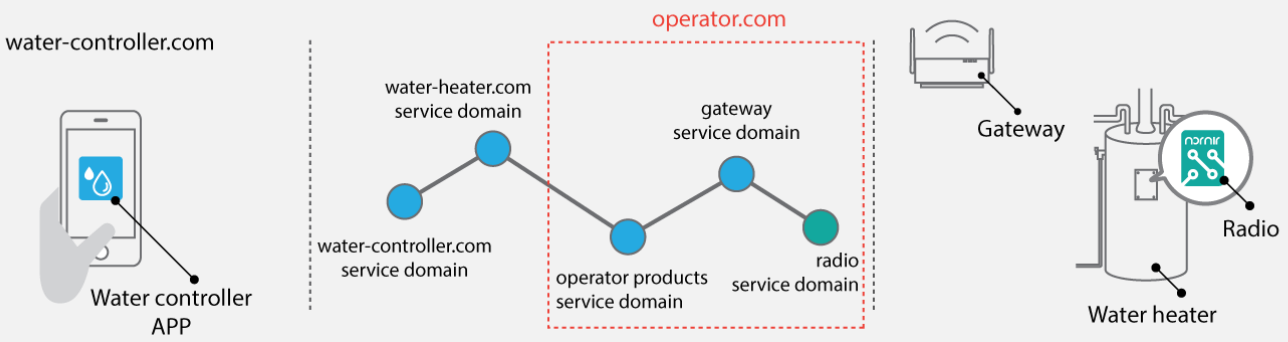
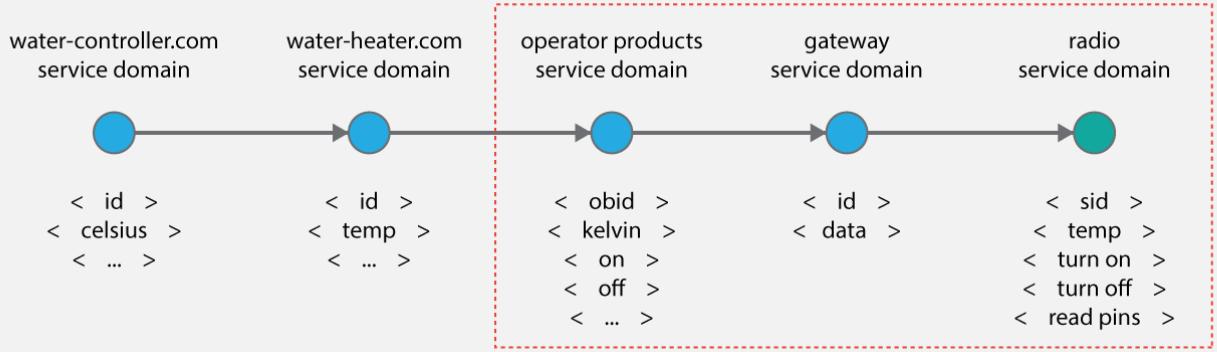
Service And Ownership

Real Life



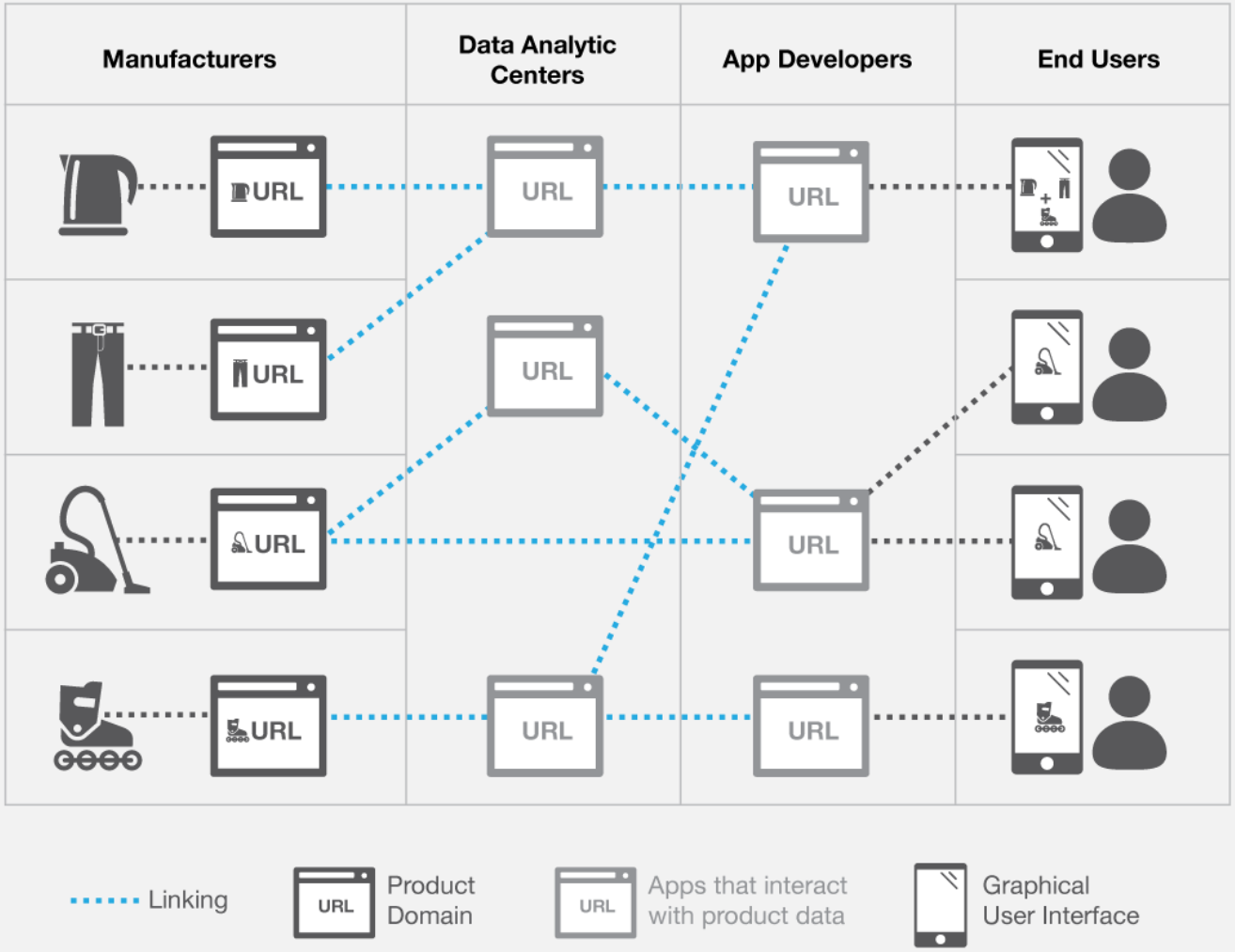
Neural Graph



Triplet Notations

Subject	Predicate	Object
water-controller.com	turn on	water-heater.com
water heater.com	switch on	operator products service
(operator products service)	(by pass)	(gateway service)
(gateway service)	(turn on)	(radio service)

RTW Marketplace



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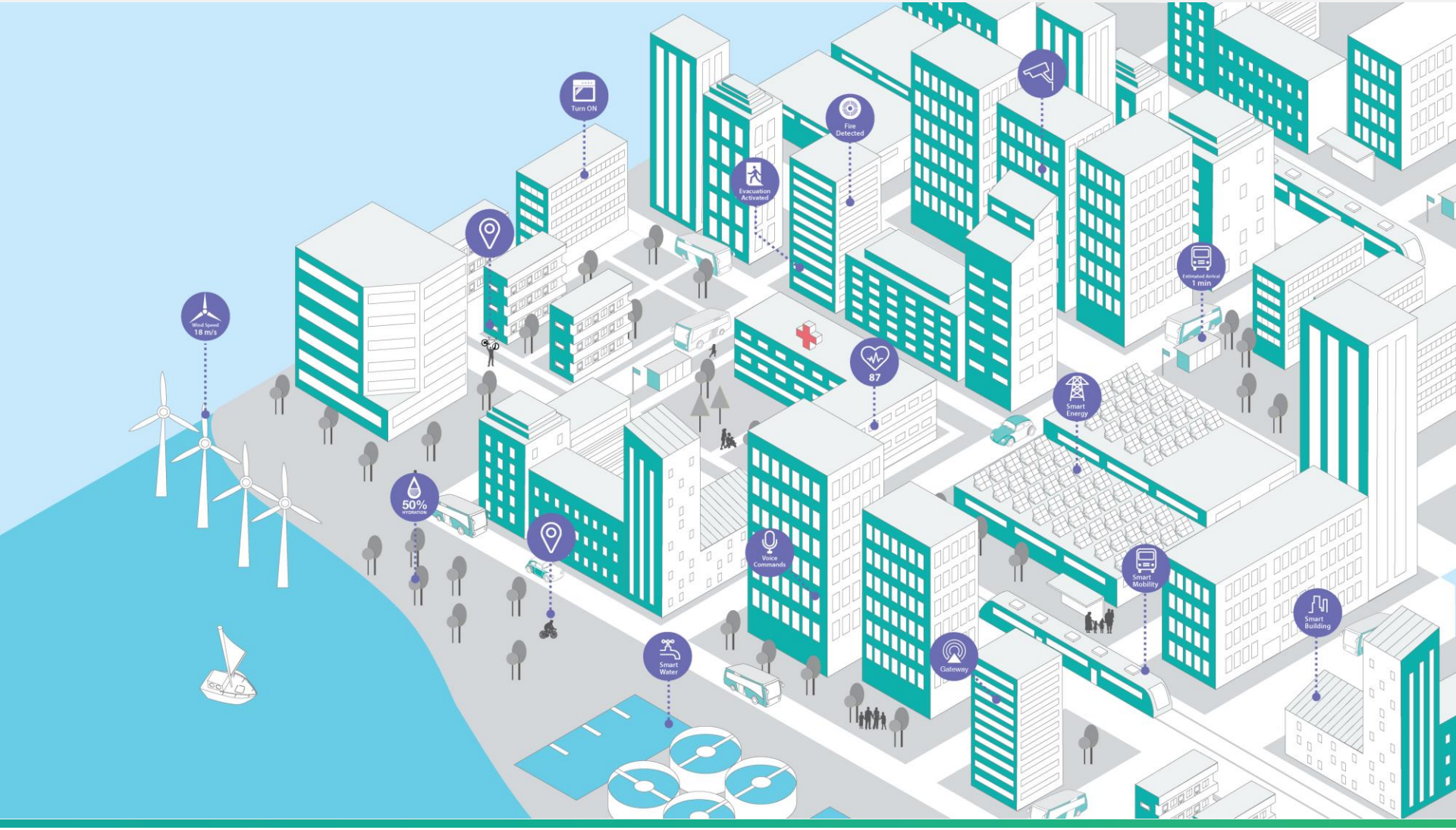
Demo City (Steinkjer)



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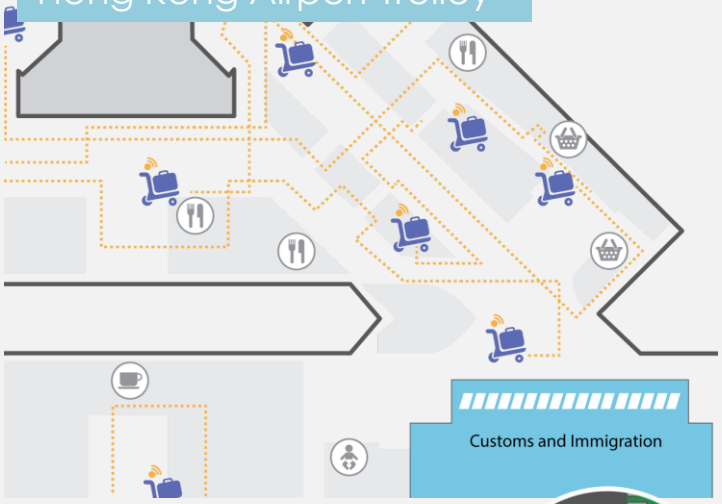
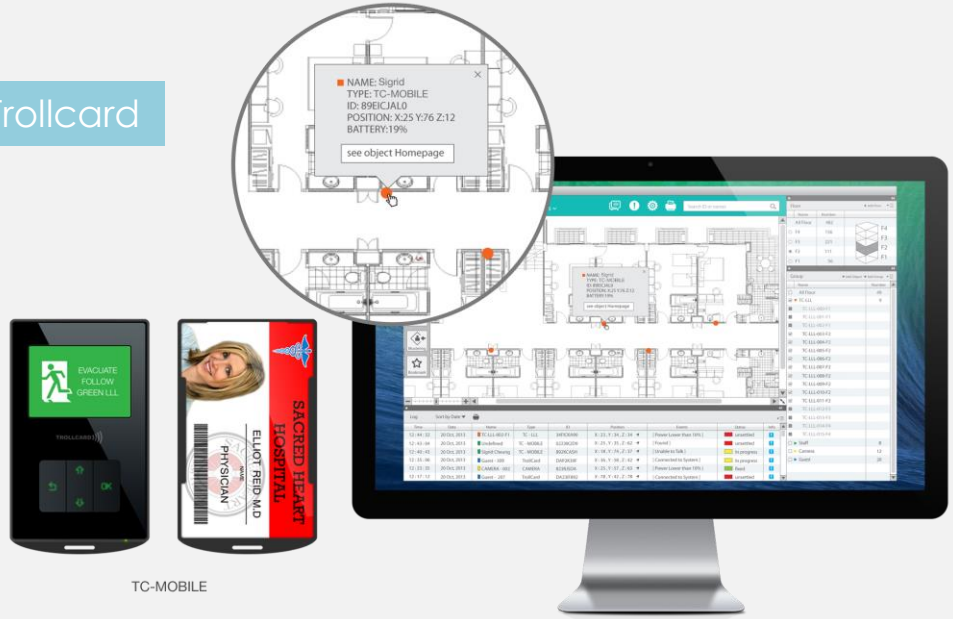
RTW Projects

Safety Alarm for elderly

Hong Kong Airport Trolley



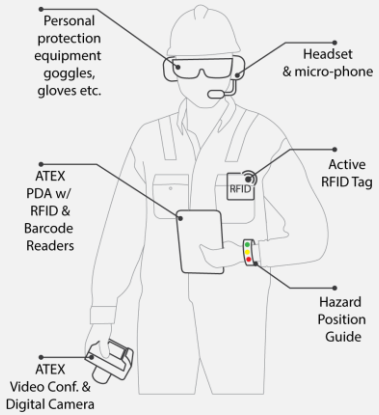
Trollcard



Water Heater Tank

RTW Projects

SOGAS



eBoot Ski Tracker

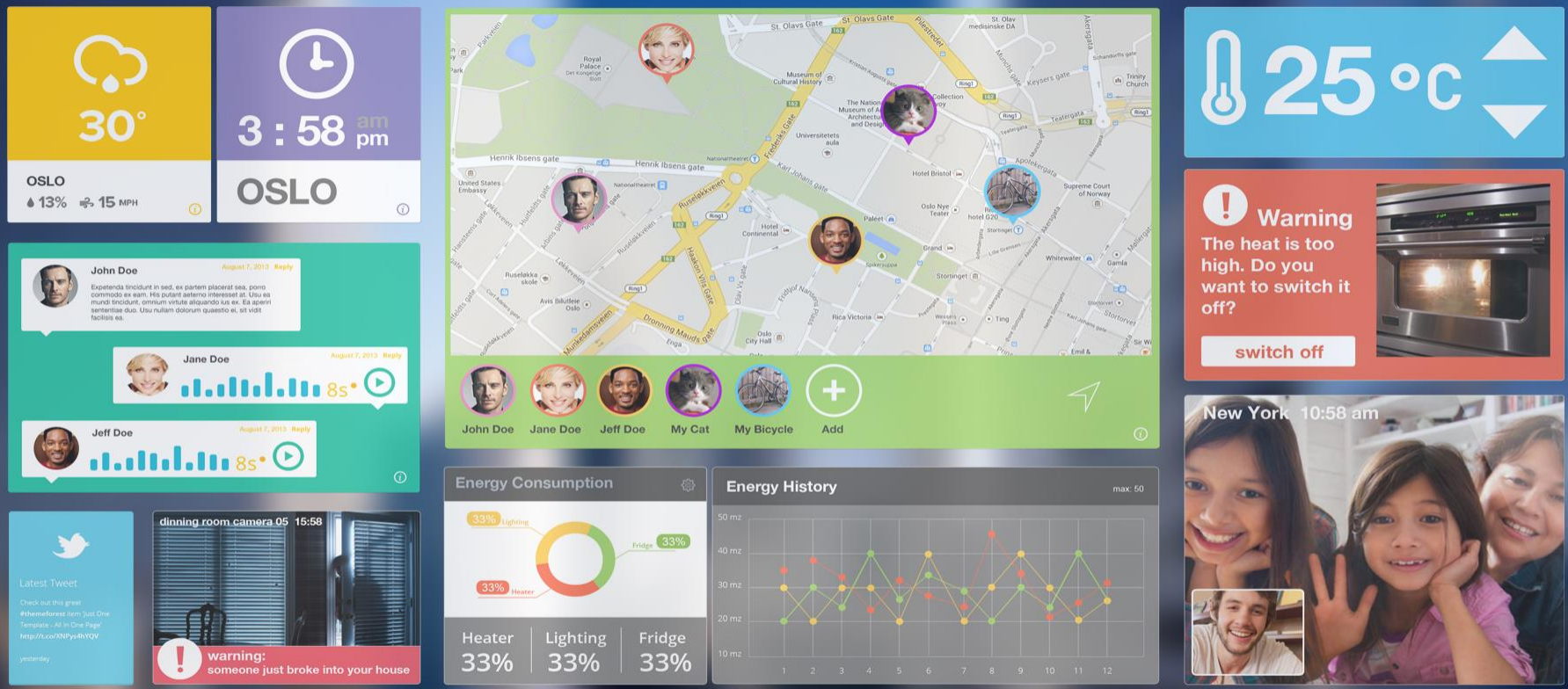
Egge Helsetun

Indicates that something may be wrong

Unstable

Usual

Launch of FriendUp OS in 2015



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THANK YOU !

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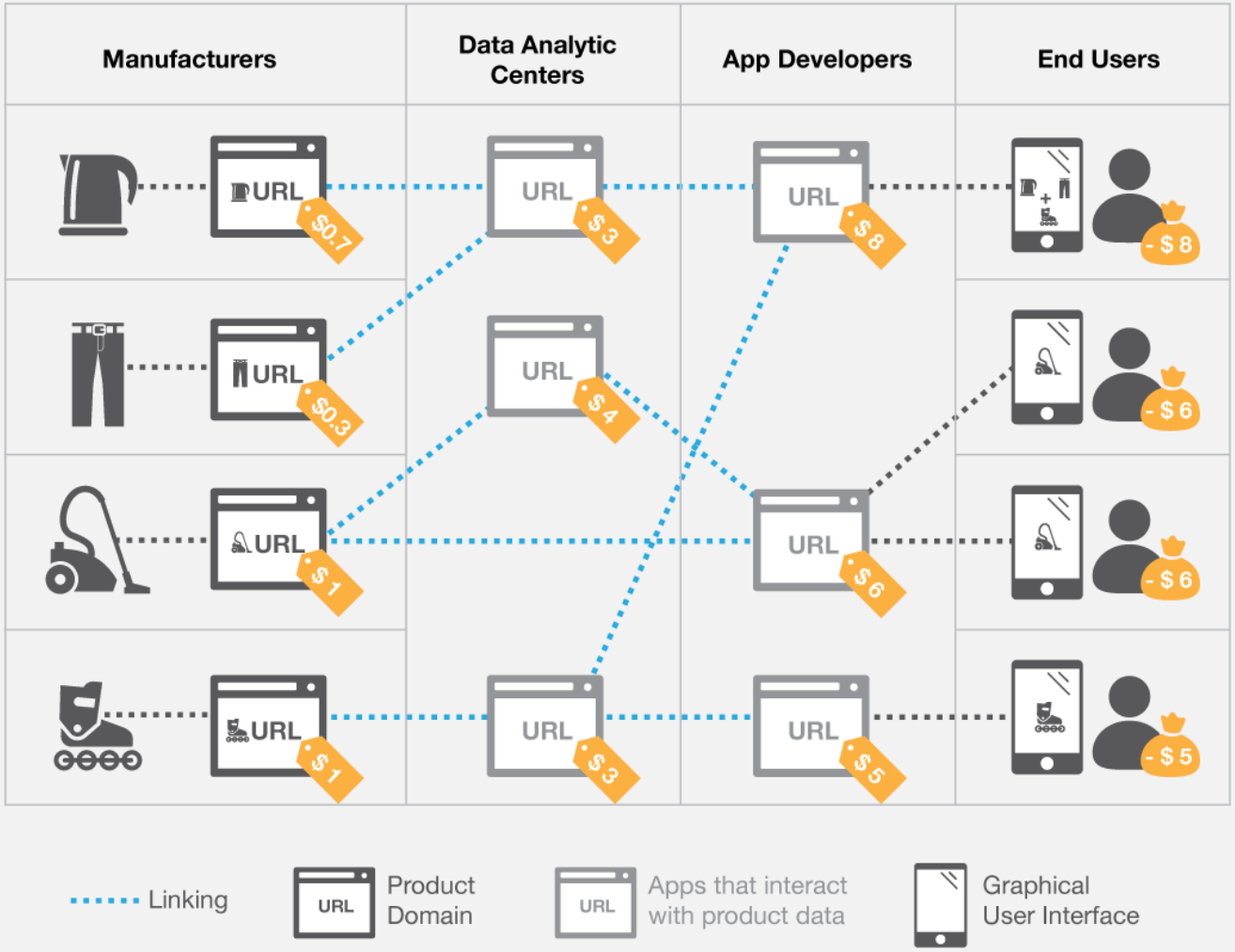
RTW Marketplace



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