

# CONCEPT REPLY



# Internet – of – Things – The vision

Enabling a communication Ecosystem among people, objects and interconnected systems



# Key Elements for a Internet – of - Things Platform



## Visualization

- End-to-End Vertical Applications
- Mash-up portals
- Business Intelligence Tools
- Mobile Applications

 **REPLY**



## Orchestration

- Interoperable Service Bus
- Flexible Process Platforms
- Application building blocks

 **REPLY**



## Services

- Service Aggregation & Adaptation
- Context Management and Location Awareness
- Real-time Service Brokering, Discovery and Publishing
- Semantic-based Distributed Reasoning

 **REPLY**



## Data

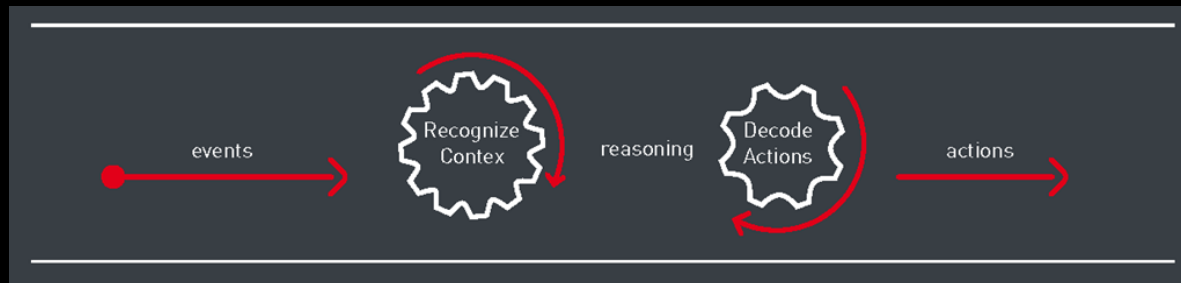
- Sensors
- Locations
- Identifications
- Web data
- Historical databases
- Online & Physical

Security  
Privacy and Trust



# Context Awareness & Distributed Reasoning

- **Riconoscere il contesto** basandosi su dati provenienti anche da sorgenti eterogenee.
- **Adattare il comportamento** al contesto riconosciuto (ad esempio generando opportuni comandi per nodi attuatori o generando raccomandazioni per il resto del sistema).

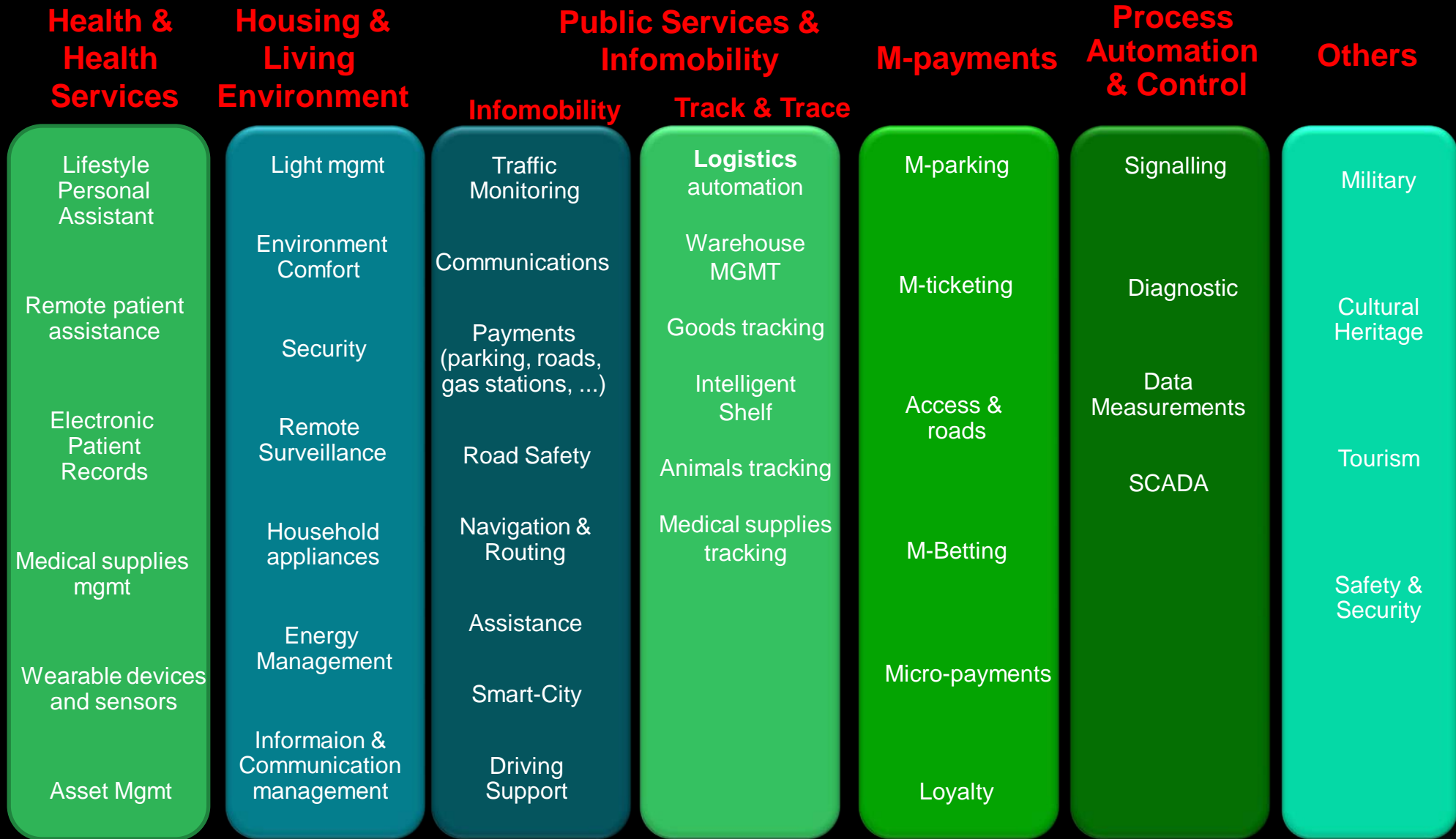


Il modulo di Context Awareness integra diverse tecniche:

- Metodi Semantici (usati in casi di logiche complesse e/o che necessitano frequenti cambiamenti)
- Complex event processing (usati nei casi in cui devono essere gestite grosse quantità di dati come ad esempio accade nei sistemi smart-grid).
- Metodi statistici (usati nei casi in cui si hanno insiemi di dati incompleti o parzialmente inconsistenti).

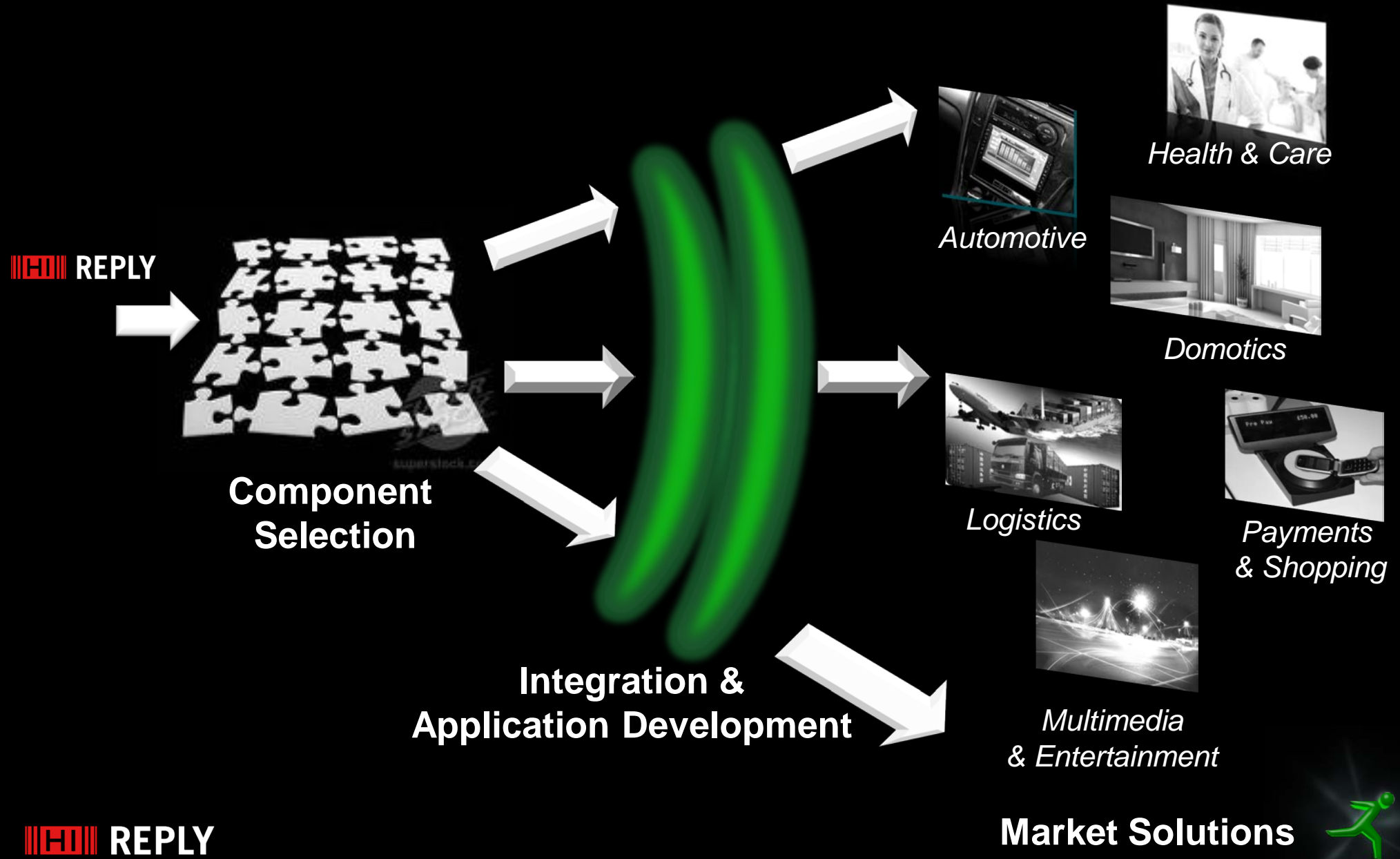


# Application Streams



The world of applications is extremely fragmented and characterized by interconnected and interdependent players

# From the Platform to the Market Solutions



The next «Thing» to connect: YOU

