

Innovation as a driving force

Michel Léger, EVP R&D and Technology

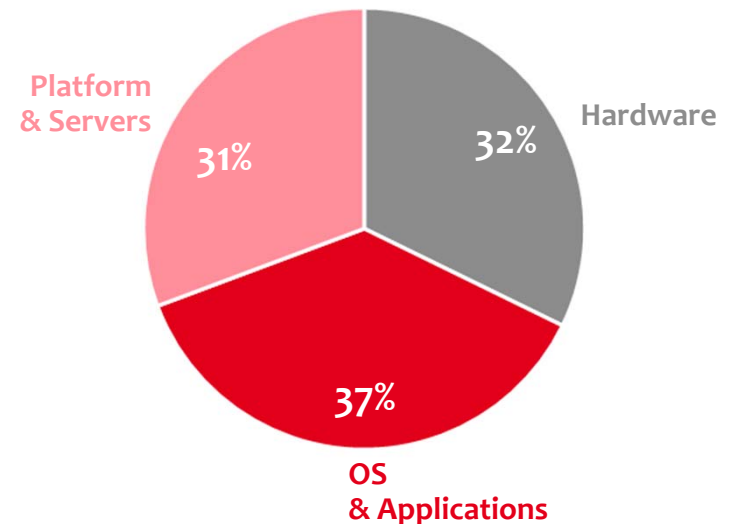




R&D at Ingenico: Key Facts

- **8% of group revenue**
- **R&D engineers: 25% of group employees**
- **Broad expertise in development:
from hardware to software applications**
- **2 new high quality patents every month**
- **A worldwide network of data centers
managing more than 3bn transactions**

*Breakdown of R&D headcount
as of December 31, 2012*



R&D at Ingenico: a global footprint to better anticipate customers' needs

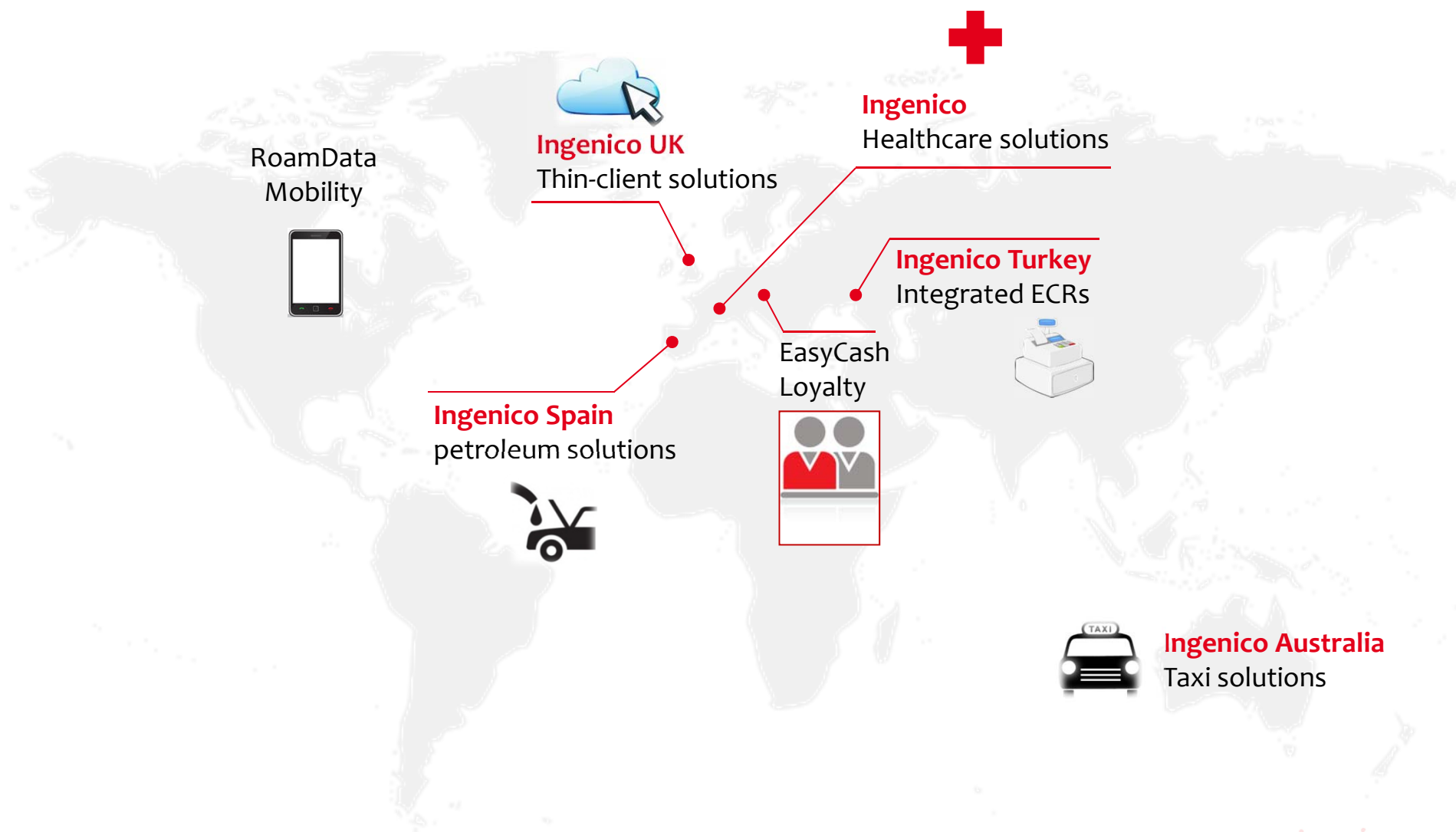
Decentralized development capacity to be closer to customer needs with 50% of R&D engineers at regional level

Across the globe : significant interaction between corporate and regional R&Ds

- Ingenico offices and R&D centers
- Ingenico sales offices
- value-added resellers



Leveraging multi-local presence to deploy innovation in solutions





R&D: a pragmatic approach adapted to a fast moving technological environment

- **In-house research for cutting-edge payment security**
 - > Hardware security and cryptography
 - > Operating System security
 - > Transaction engines

- **Strategic technological partnerships**
 - > ATMEL: Secure POS-core ASIC
 - > MORPHO: Biometrics
 - > Other partners for color touch screen, secure keypads, communication modules

- **Acquisition of technology for better “time-to-market” efficiency**
 - > Roam Data
 - > Ogone



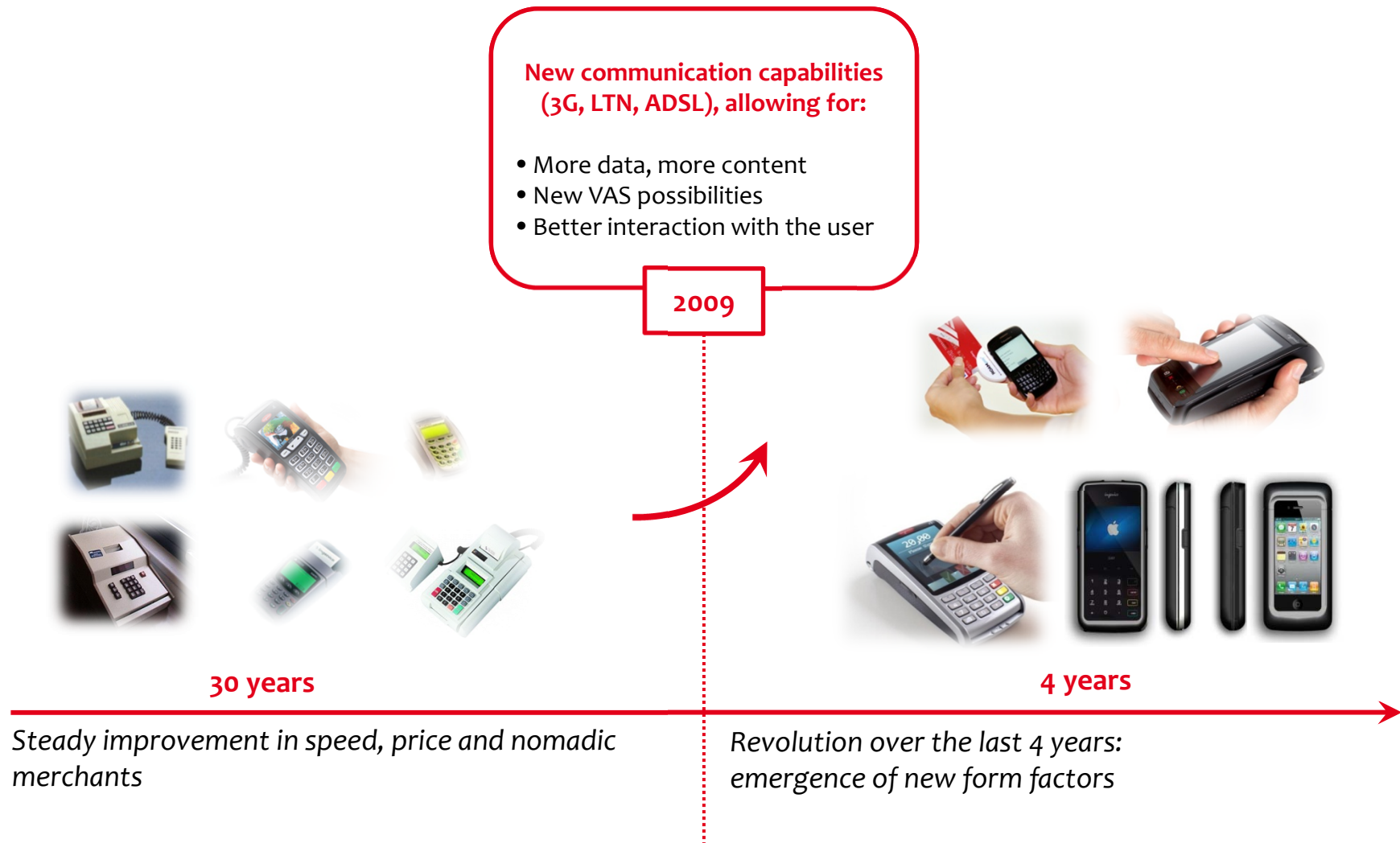
Our R&D Strategy

- **Create an open and secure environment for transactional models and new value-added services**
- **Focus R&D on 2 essential pillars :**
 - 1. Payment Platform: next best-in-class generation Telium 3**
 - 2. Services and solutions: multi-channel payment architecture expertise**



Payment Platform: Telium

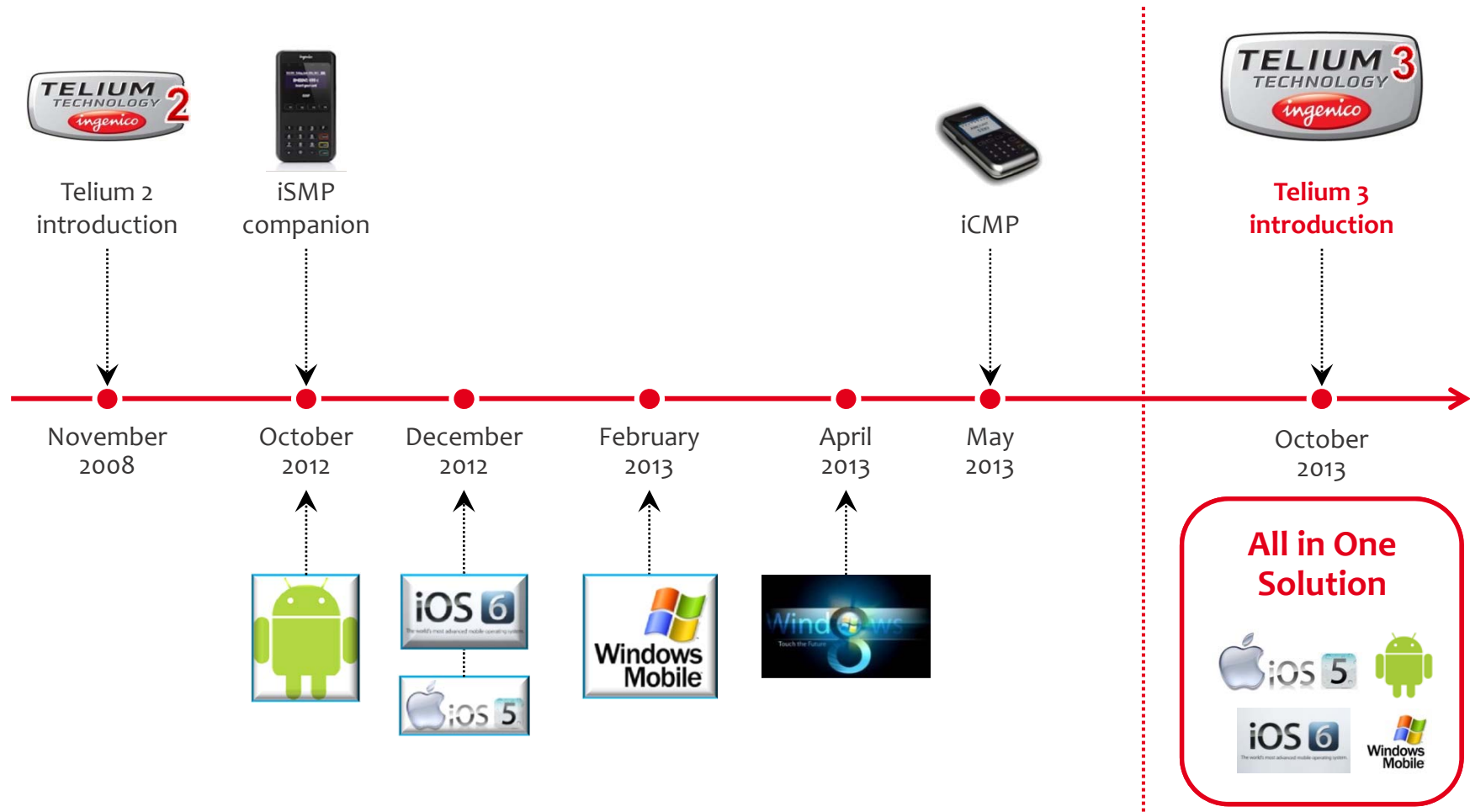
Successful when hardware evolution accelerated





Payment Platform: Telium

Next gen will bring more integration





Payment Platform: Telium 3

Cheaper, faster and more reliable hardware

- Reduced number of components, more reliable
- Smaller products
- Reduced weight
- Greater autonomy
- Increased performance specially for multi media and web services
- Better user interfaces
- Ready for future security standards



Payment Platform: Telium 3

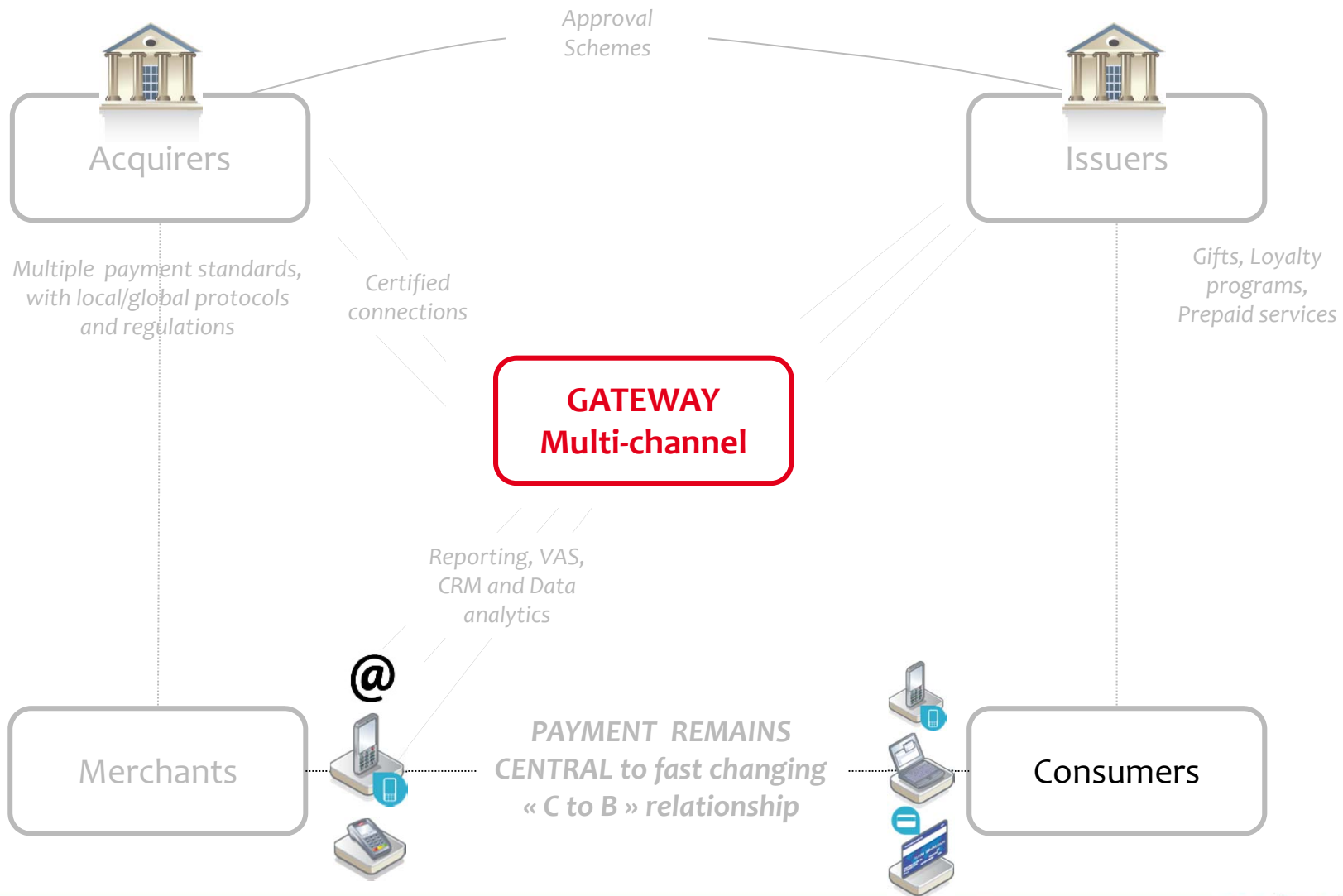
Allowing Ingenico's secured payment technology inside new devices

- **Example of Microsoft – Ingenico partnership announced in Jan 2013**
- **Combining business application and secured payment on the same device**
- **Next Gen Payment TV**

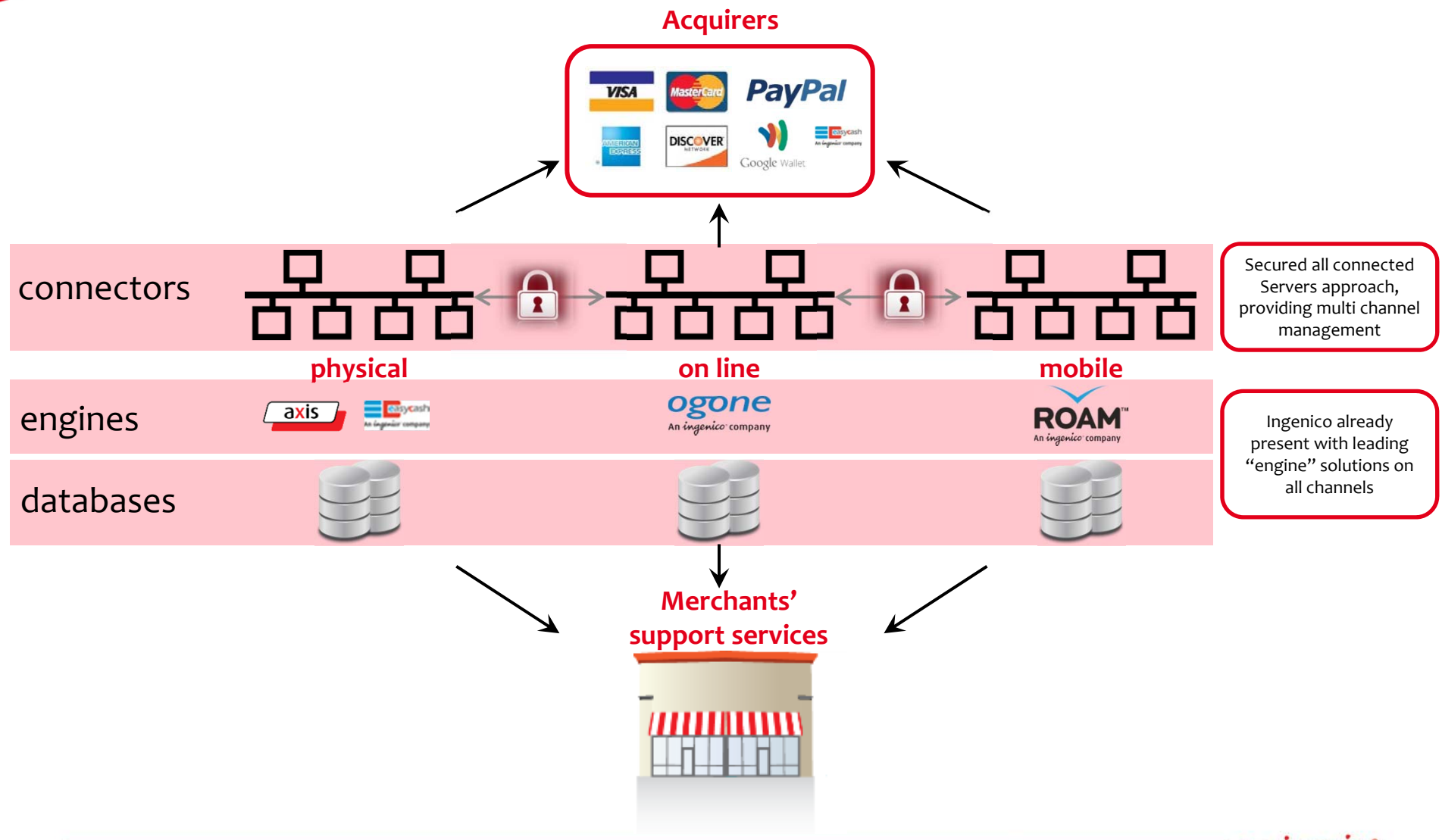


Bills, teleshopping, tickets...

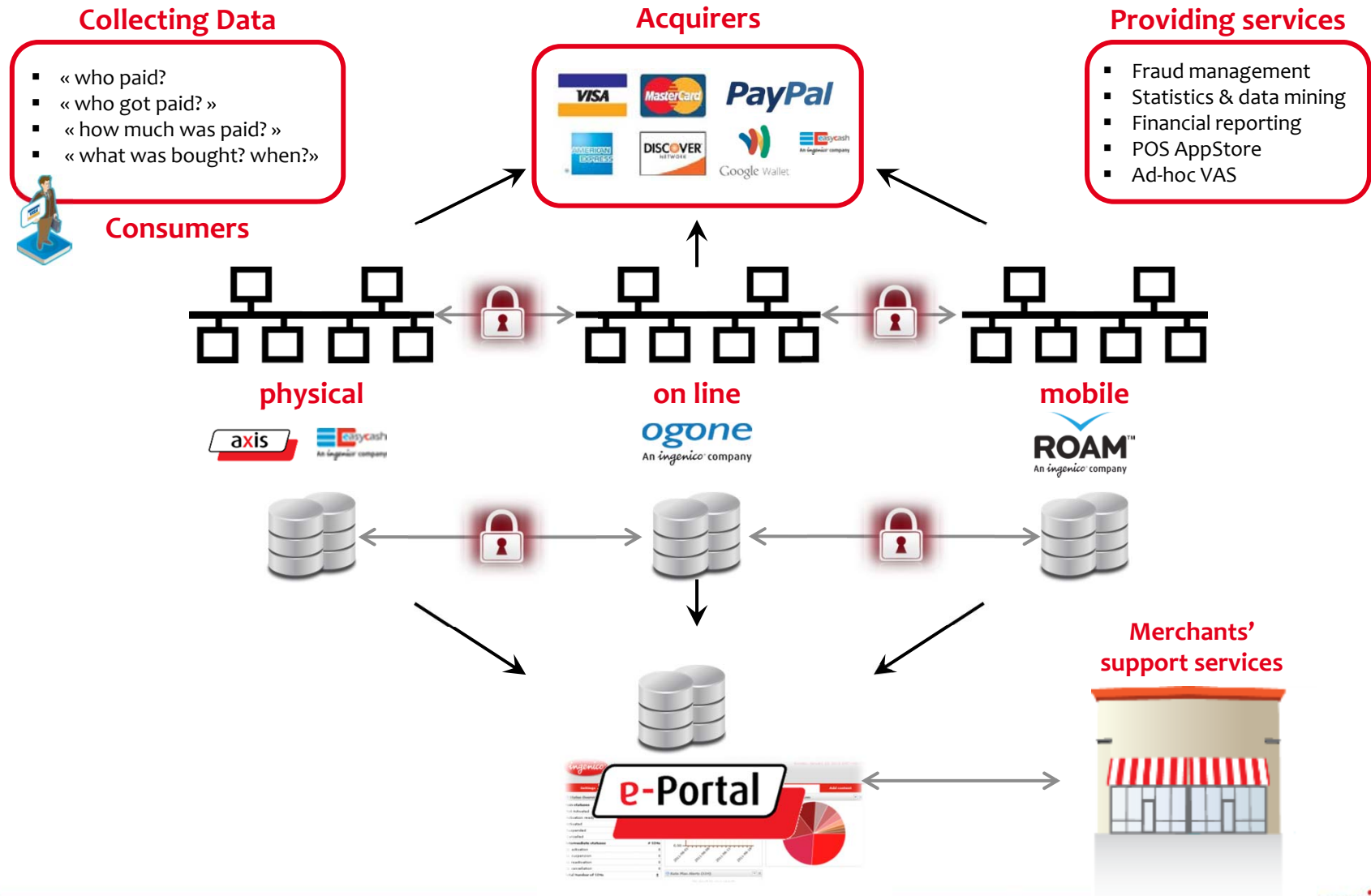
Ingenico, the central player thanks to payment expertise and white labelling



Services and solutions: integrate existing bricks to build multi-channel gateway



Services and solutions: integrate existing bricks to build multi-channel gateway





Innovation: a strong and differentiating asset

- A worldwide footprint and network of talents to better anticipate needs and stay ahead of the tech curve
- An opportunistic “make, partner or buy” R&D approach, well suited to a fast moving technological environment
- A constant R&D effort on hardware, platforms, applications to accelerate offer for enhanced VAS
- A focus on developing robust and simple solutions, customizable to meet all types of customer demand, anywhere