

# edp IoT hackathon



Microsoft



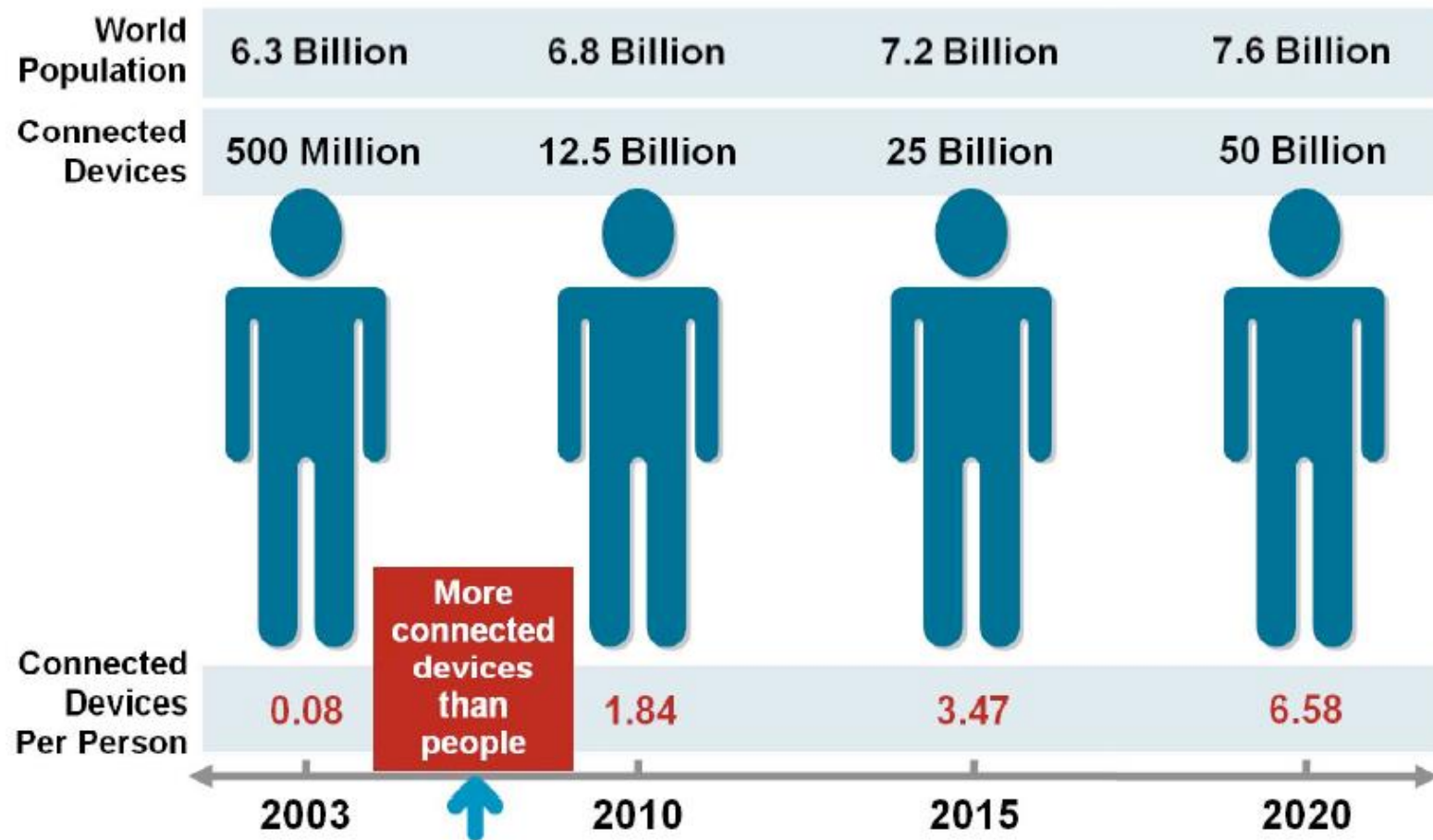
EDP  
STARTER

BizSpark



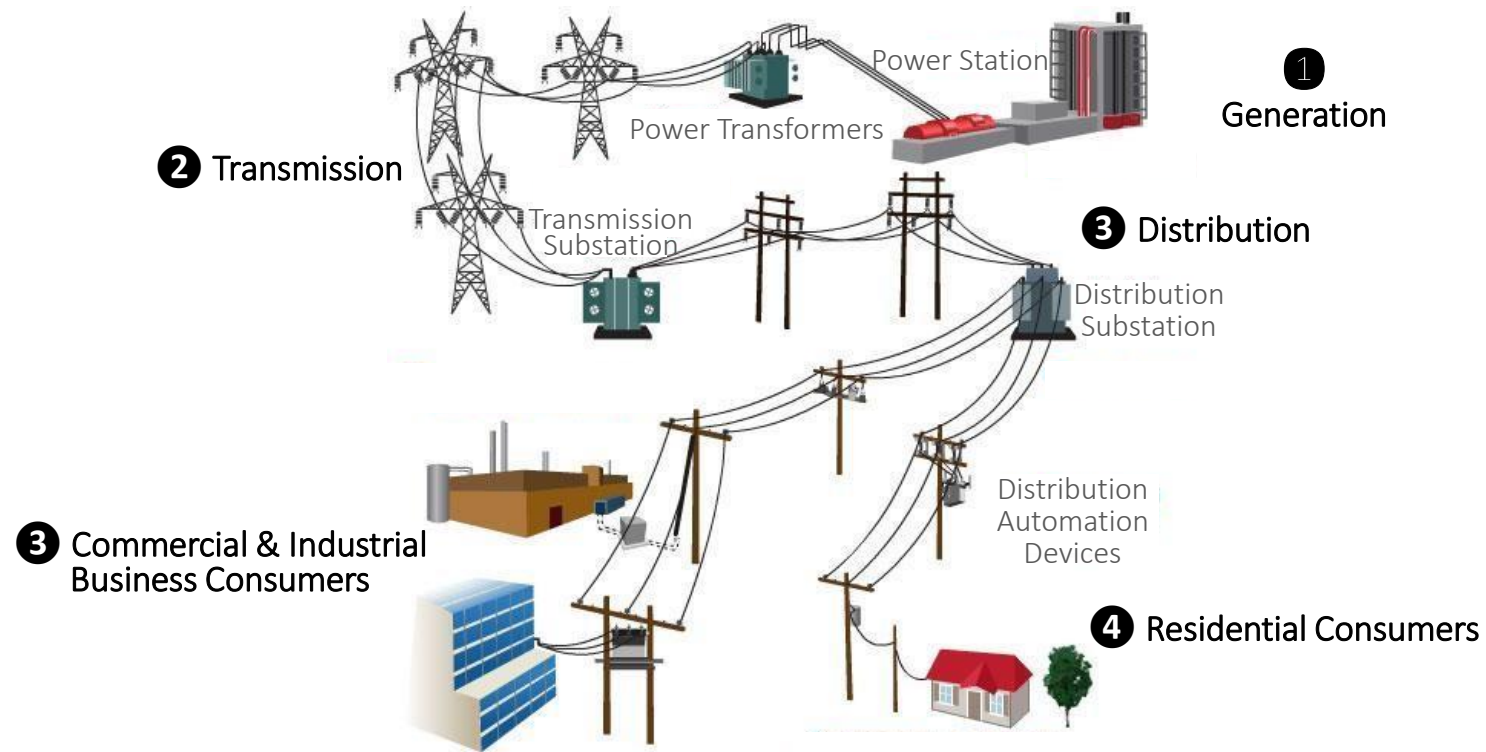
NARROWNET®  
LINKING THINGS

# The "Internet of Things" was born between 2008 and 2010

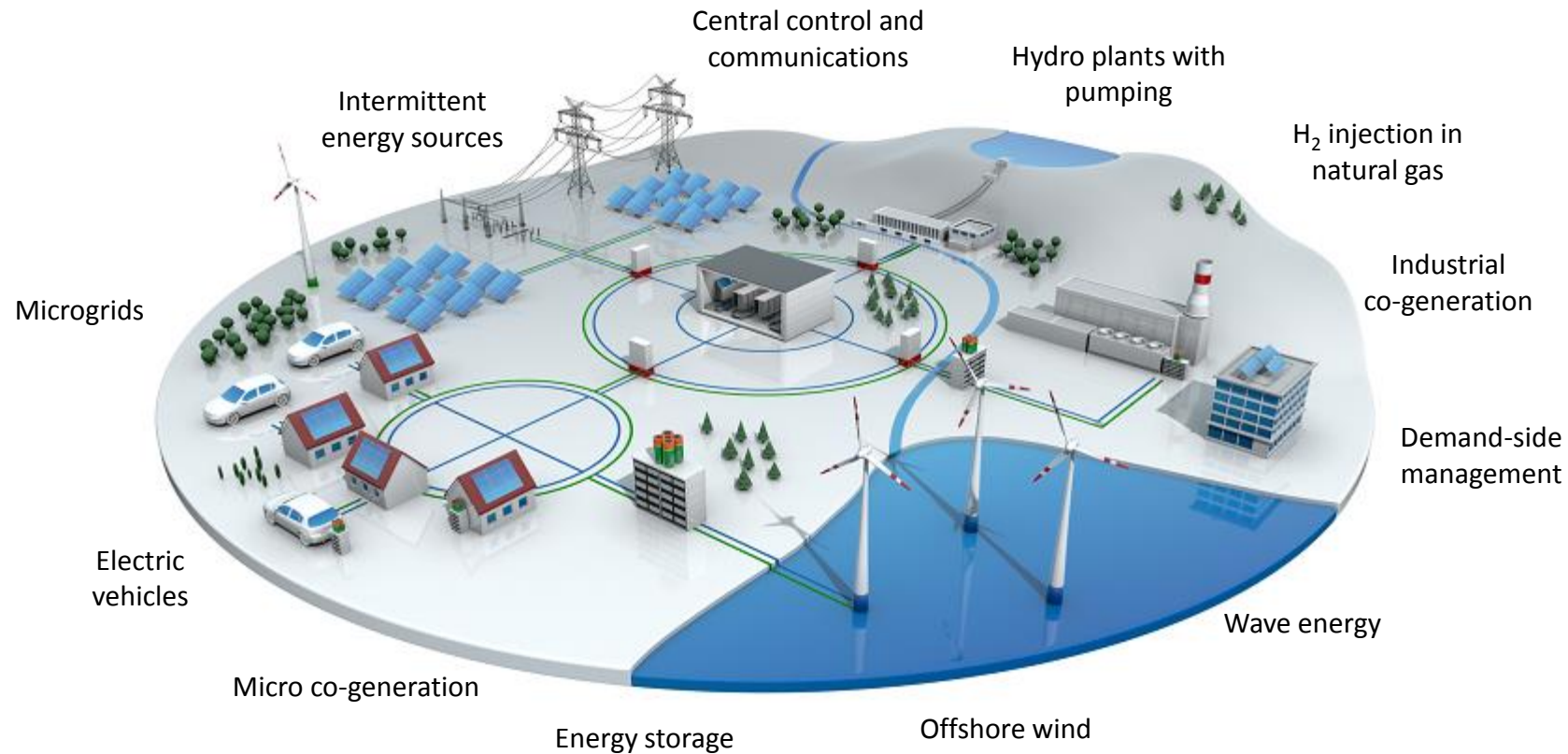


Source: Cisco IBSG, April 2011

For nearly a century, we looked at the electricity value chain as one-way street of continuous traffic

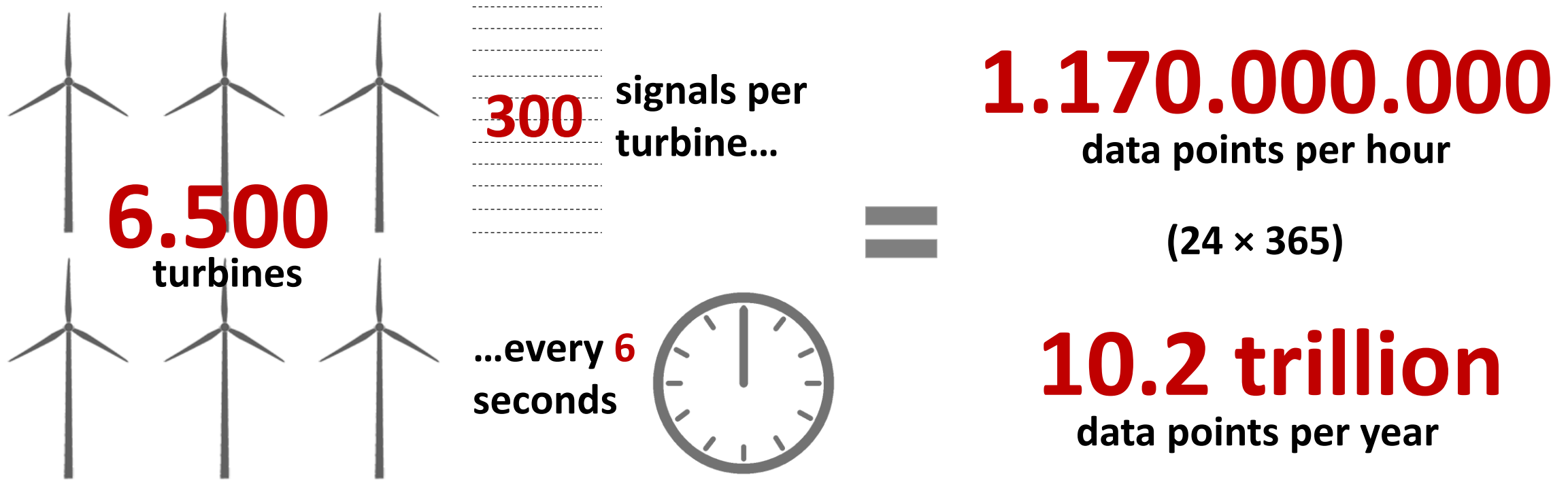


Today: decentralized generation, multi-directional & intermittent energy flow; the smart grid needs IIoT\*



\*Industrial Internet of Things

Each wind turbine generates 3.000 data points per minute - we had big data before we knew Big Data





# There are also sharing economy scenarios for IIoT data: EDP's project Sinapse is a win-win example

## Cable operators

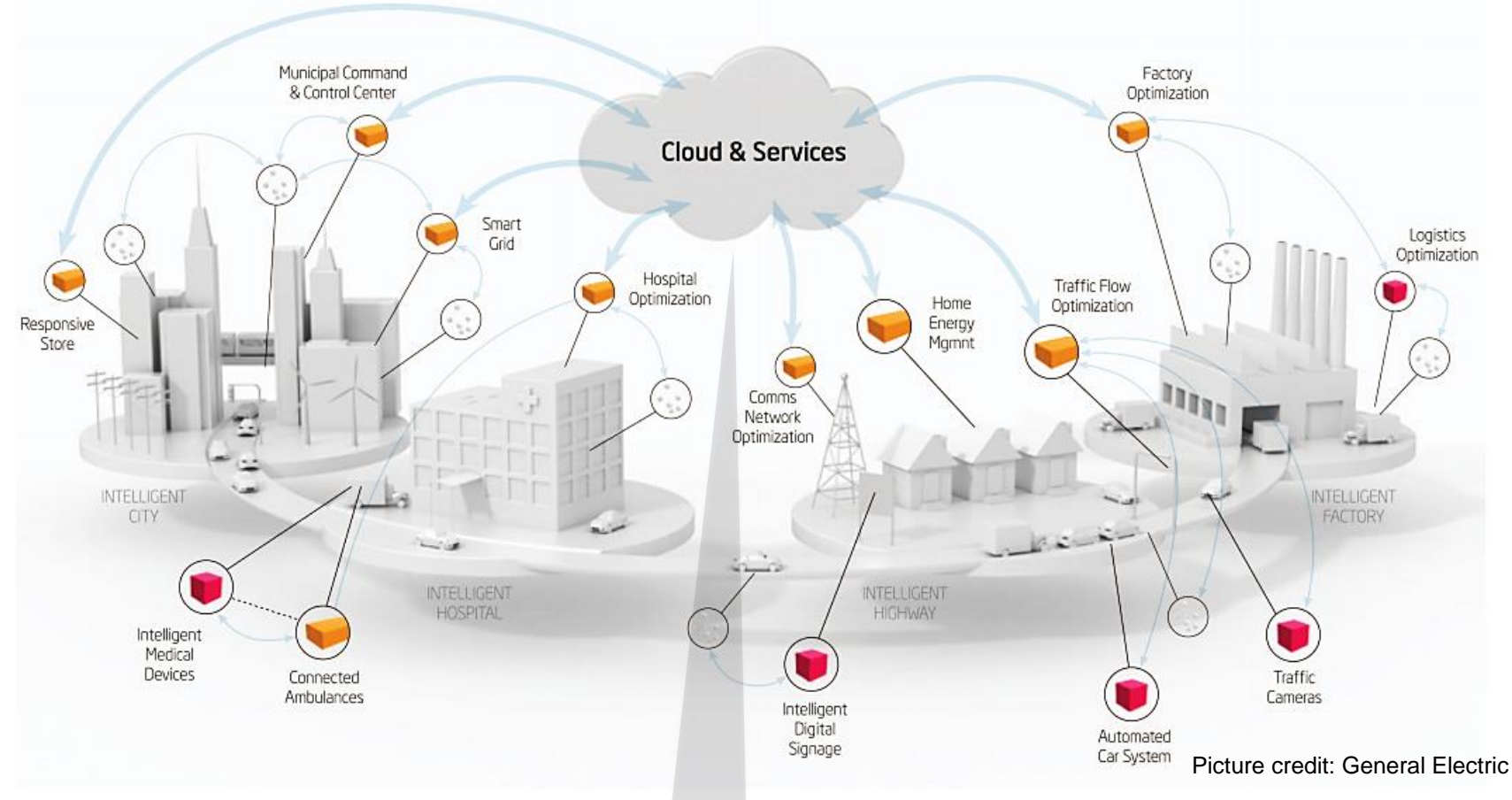
Have signal amplifiers and optical nodes fed in low voltage, and often monitor the power status of customers' set-top boxes and internet routers.

## Mobile telecoms

Radio stations are mostly fed in low voltage and monitored in real-time; in urban areas the network density is very high.

## Security firms

Provide alarm services with real-time monitoring, including power outage alerts via email/SMS.



**Project SINAPSE results from the opportunity to transform IIoT data into actionable insights for EDP. A cloud service collects outage-related events from customers, correlating them in space and time to provide real-time feedback on known incidents.**

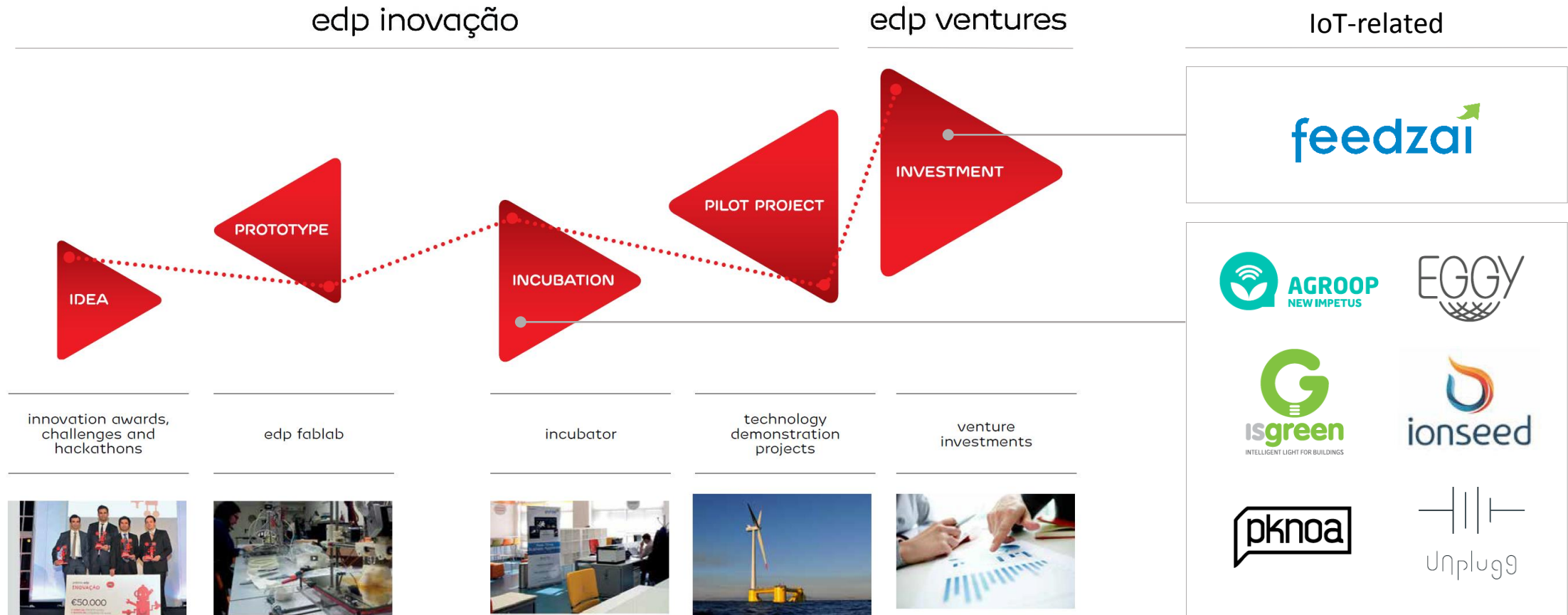
# Consumer IoT devices enable utility differentiation and increase customer knowledge and retention

## re:dy quick specs:

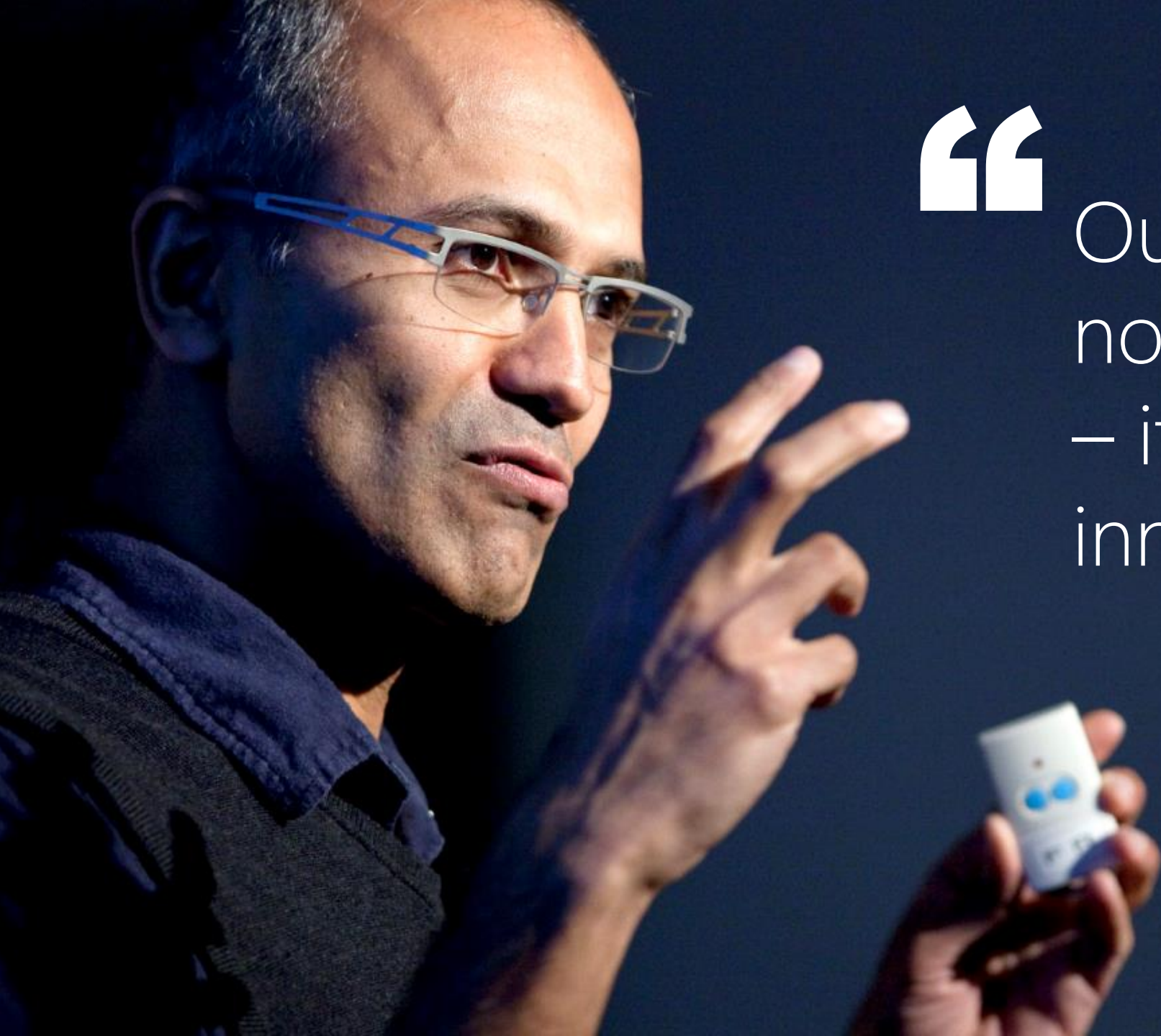
- Zigbee, PLC, Ethernet
- Monitors consumption and generation
- iOS & Android mobile apps with actuation functionality
- Smart plug, a/c control smart plug, PV smart plug, meter and switch modules
- Third party Zigbee peripherals: smoke detector, window/door sensors...



# EDP Inovação and EDP Ventures support the entrepreneurship ecosystem at all lifecycle stages







“

Our industry does not respect tradition – it only respects innovation

”

*Satya Nadella  
CEO, Microsoft*

Microsoft  Innovation

# ATIVAR PORTUGAL PILLARS

For All Startups



Tools

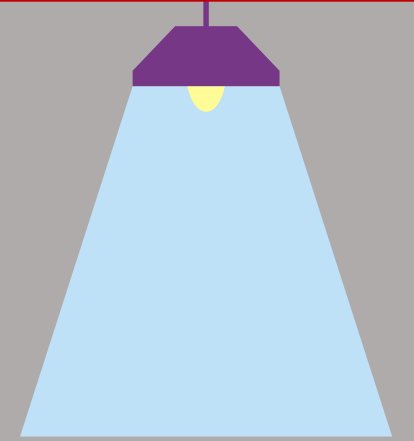


People

For High Potential Startups



Business



Spotlight

“Bringing together the best of the best  
to help **Startups in Portugal** build  
successful, world-class companies”

# ATIVAR PORTUGAL Partnerships

## Official Partners



## Microsoft Customers



## Marketplace Partners & Supporters







1 YEAR

Partners in Innovation



Microsoft



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