

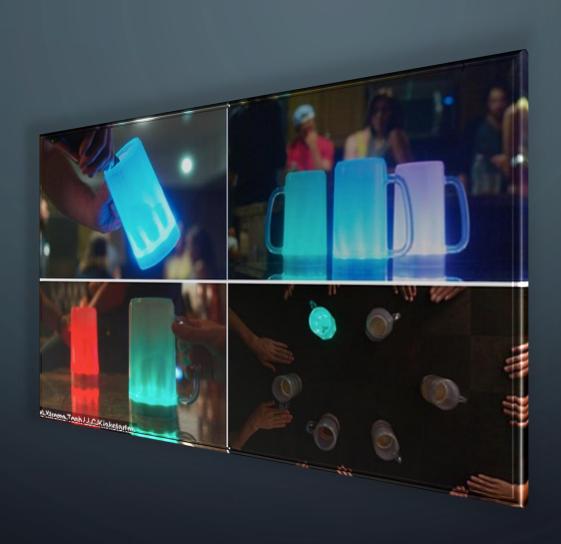


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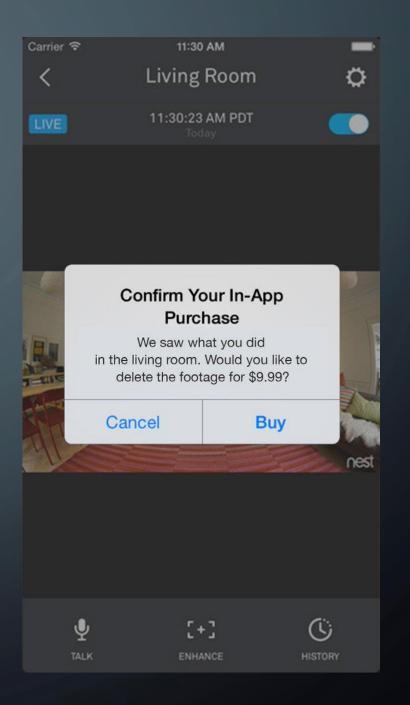
Blogger http://bartkeybergh.blogspot.be

THE WRONG IMAGE OF #IOT



THE WRONG IMAGE OF #IOT





THE WRONG IMAGE OF #IOT



WHAT'S UNDER THE HOOD

- Devices & device/asset mgt.
- Battery
- Sensors
- Connectivity
 - Low power
 - Broadband
 - WIFI

A COMPLEX LANDSCAPE

- Security IAM
- Storage Cloud
- Analytics
 - Real-time (streaming)
 - Technical stage
 - Business knowledge (KPI's)
- Front-end
 - Apps
 - MobileFirst solutions
 - Triggers

INTERNET OF THINGS LANDSCAPE

Platforms & Enablement (Horizontals)













Applications (Verticals)













amazon webservices

(Phedoop



epengate ARDUINO



MAKEY

Parts,





emotivo

Interaxon

LEAP





STRENGTH

- Opportunities
- Cost saving
- Focus on business
- Add value in services
- Innovation
- Hot topic & trending
- Efficiency gaining

SWOT

WEAKNESS

- Standards
- Security (software & devices)
- Solution complexity
- Asset mgt.
- Roadmap
- Batterylife
- Connectivity
- Still early stage
- Openess API

SWOT

OPPORTUNITY

- Healthcare
- Transport
- Quantified self
- Industry
- Environmental
- Wearables
- (Streaming) analytics & Big Data
- Automation
- Predictive maintenance
- LBS 2.0

TREATH

- Image
- Lack of trust
- Hackers
- No End2End implementator(s)
- Expectations mgt.
- Connectivity

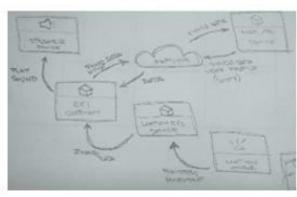
THE IOT CANVAS - DESIGNING THE IDEA

THINGS	END POINTS	MIDDLEWARE		AUTOMATION	USERS
	DATA MODEL	THIRD PARTY SERVICES		WIDGET	
			DESCRIPTION		
DIAGRAM			DESCRIPTION		

APPLIED IOT CANVAS: SMART HOUSE

Water barrel/pump Weather station (Alecto WS-5000) Solar panel(Solar log) Washing Machine	Water level sensor Valve control Allnet logger Smart-Relay box	Raspberry PI XBee Gateway Messaging Broker	AUTOMATION WaterBarrel>90% && solar panel >90%, valve=1&&washer =1 solar panel>90% <appliance>Power =1&&program=1</appliance>	users House owner (Head geek) Family members Community members from weather websites
(Beko)	DATA MODEL	THIRD PARTY SERVICES	WIDGET	
Dryer Dishwasher	Valve control - int Weather station - complex Solar - complex Appliances - bool	Wunderground	Weather, water, solar - Graphs Appliance control - toggle status	

DIAGRAM



DESCRIPTION

"I'd like to make an automation project that "senses" the weather outside (rain, sun radiation and darkness), takes into account the electricity produced by the solar panels and that than automatizes certain household appliances or the central heating.

I would like to have such a system because I want our house to be smarter and less energy-consuming and thus more environmentally friendly."

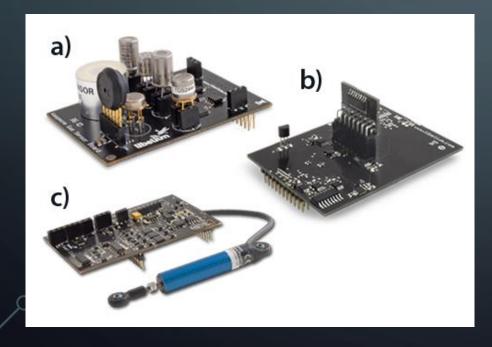
IOT IN ACTION - SMARTCITY SANTANDER [SPAIN]



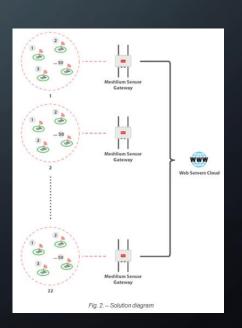
Smart Parking — LoRaWAN / Sigfox (double radio)

On-road, surface \rightarrow In production 2016

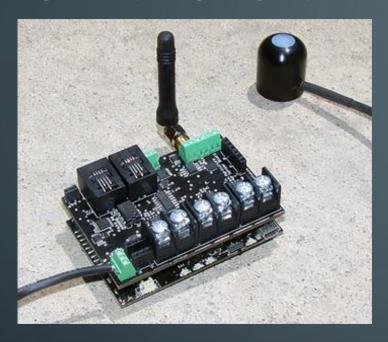


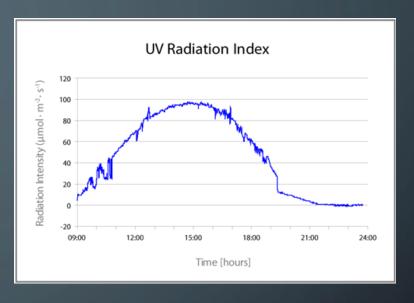


- Temperature
- Luminosity
- CO
- Noise
- Free Parking Slots



IOT IN ACTION - RADIATION IN THE SUMMER

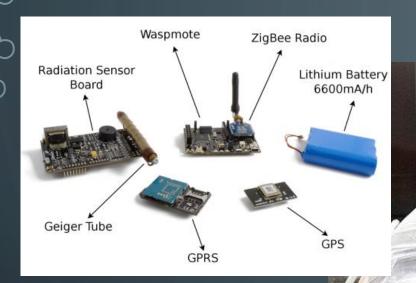


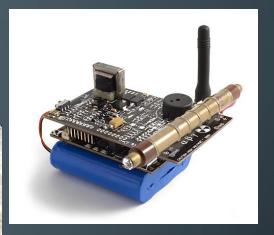






DIOT IN ACTION - RADIATION SENSOR









"The key, is to come up with ideas that people will actually use. Processing data to provide actionable insights is what it's all about. It's not the things that matter it's processing the data.

Just like a fridge,
it's what's inside,
and how you use it, that counts."

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