EUROPEAN
BIG DATA VALUE FORUM
VERSAILLES, NOV 21-23 2017

European Commission

BDV BIG DATA VALUE ASSOCIATION

Inria inventors for the digital world

Big Data: The road to digital transformation in healthcare

SERGIO BELLO
SMART HOME PROJECT MANAGER
TELEVES

Televes®

ACTIVAGE PROJECT

INDEX

1. Televés, the company

2. Activage, the project

3. CareLife, the solution

4. Big Data, the evolution

Televés

Corporation numbers 2016

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Global presence

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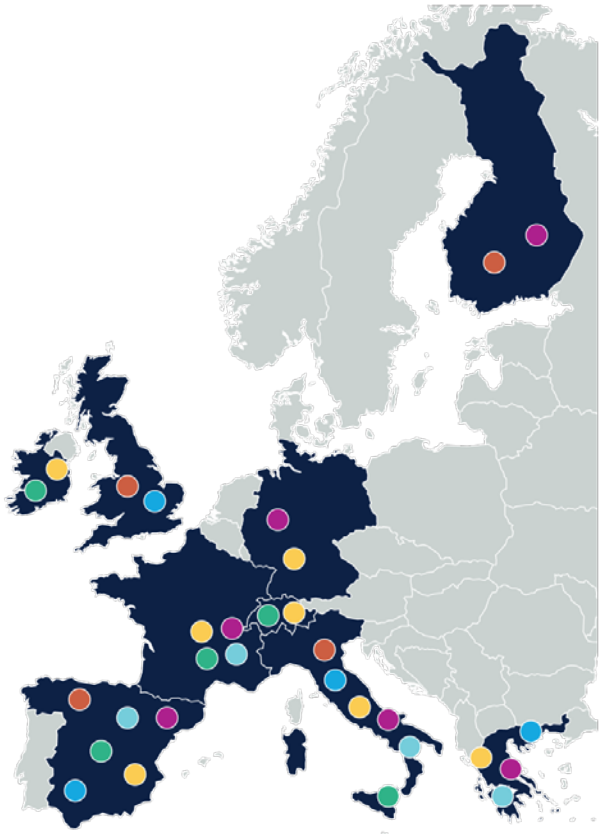
Activage

Data



SME
MYSPHERA
HOPU
MEDEA
TEA
TECHNOSENS
ATENZIA
GESMED
GNO
INFOTRIP
SENIORSOME
GOODLIFE
EHOIVA
ISI BIENESTAR
AJT
SageLiving

INDUSTRY
MEDTRONIC
STM
TVES
IBM
C2K
SAMSUNG
WIND TRE
IMA
KORIAN

RESEARCH ENTITY
FhG
CEA
CERTH
INSIGHT
TECNALIA
MADOPA
CSEM
CNR
ICCS

PUBLIC ENTITY
InnDEA
LHA PR
SERGAS
DCCG
LCC
CD38

OTHER
FVE
CRE
AUR
MM
MPH

ACADEMIA
UPM
UPV
UNIPR
TUAS
UniS

ACTIVAGE PROJECT

***ACT**ivating **Inno**V**a**tive IoT smart living environments for **AGE**ing well*

- 50 partners
- SME's, industry, research entity, public entity, academia

- 9 countries: Finland, UK, France, Germany, Italy, Greece, Czech Republic, Ireland and Spain

- 7200 users

- Budget: 25M€

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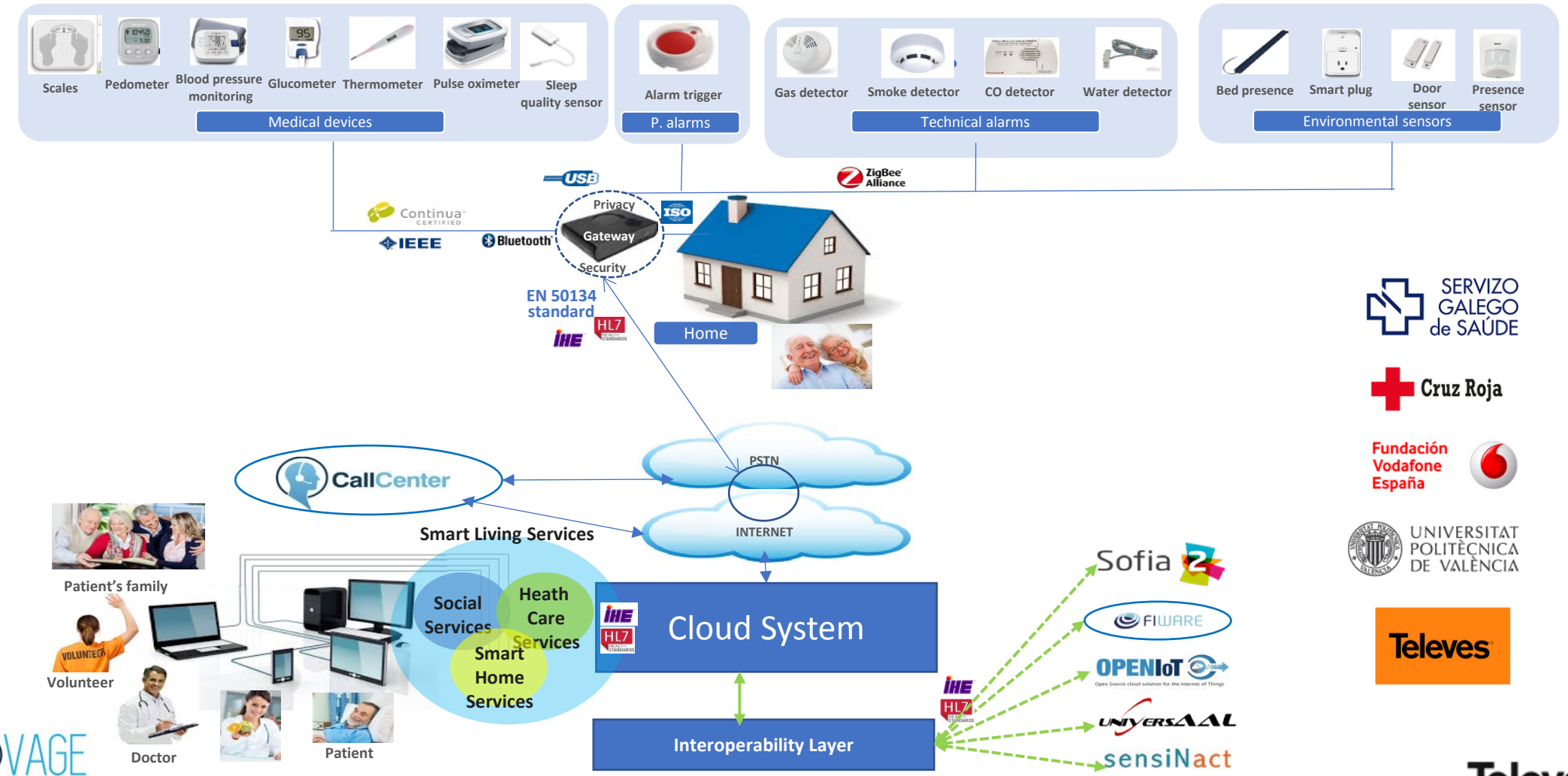
Activage

Galicia Deployment Site



SERVIZO GALEGO de SAÚDE

Cruz Roja

Fundación Vodafone España

UNIVERSITAT POLITÈCNICA DE VALÈNCIA

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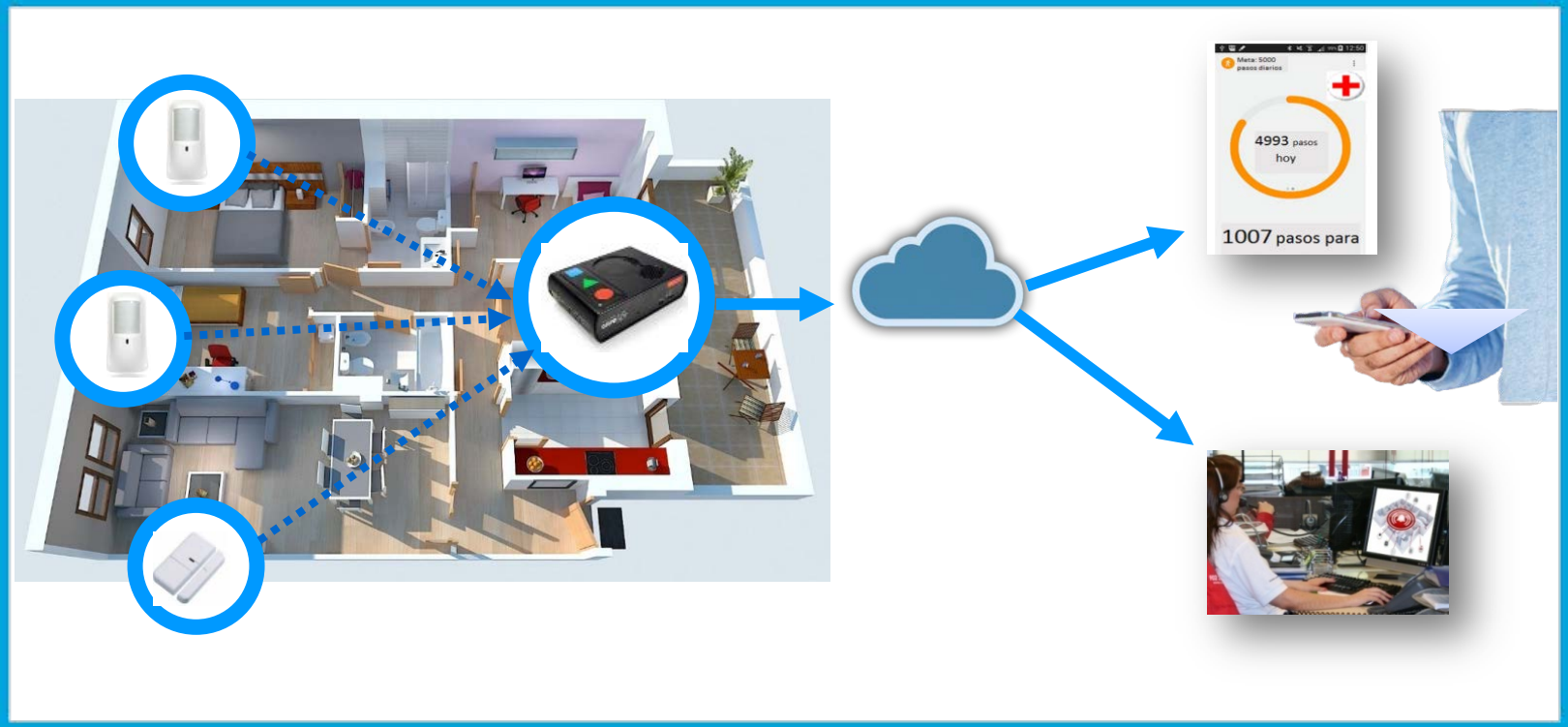


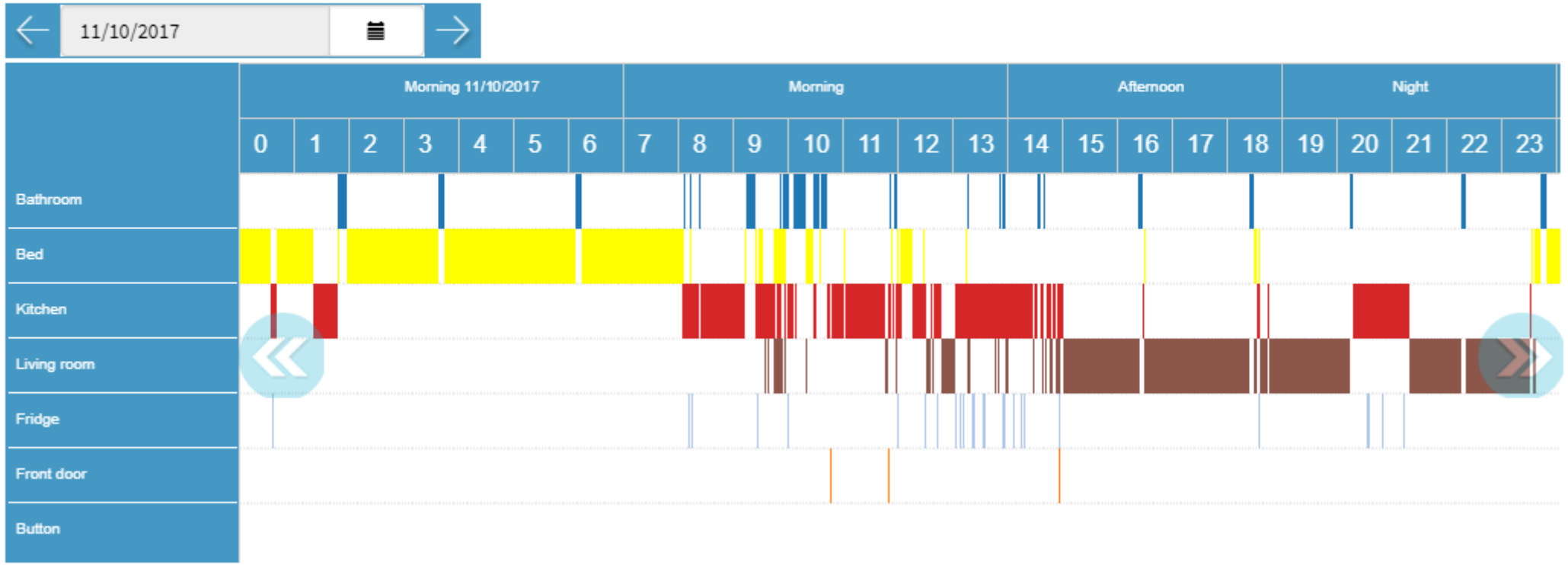
CareLife: getting behaviour data

CareLife

Behaviour monitoring

Activity chart - Wednesday 11/10/2017

This chart shows the beneficiary's location for each one of the different zones at home along the day, it also represents the unit's buttons usage



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CareLife: getting medical data

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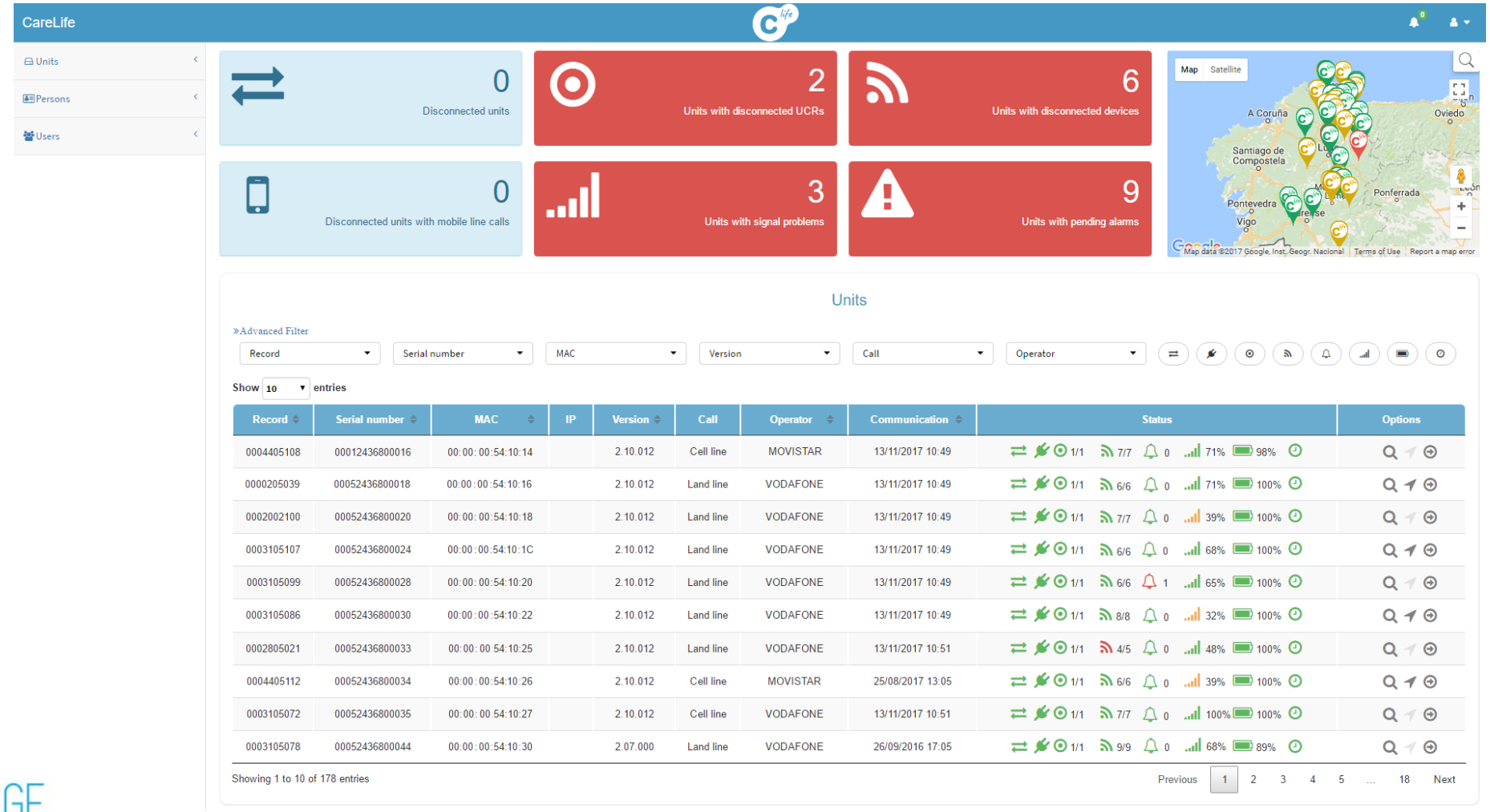
CareLife

Platform



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0004405108	00012436800016	00:00:00:54:10:14		2.10.012	Cell line	MOVISTAR	13/11/2017 10:49	1/1 7/7 0 71% 98%	
0000205039	00052436800018	00:00:00:54:10:16		2.10.012	Land line	VODAFONE	13/11/2017 10:49	1/1 6/6 0 71% 100%	
0002002100	00052436800020	00:00:00:54:10:18		2.10.012	Land line	VODAFONE	13/11/2017 10:49	1/1 7/7 0 39% 100%	
0003105107	00052436800024	00:00:00:54:10:1C		2.10.012	Land line	VODAFONE	13/11/2017 10:49	1/1 6/6 0 68% 100%	
0003105099	00052436800028	00:00:00:54:10:20		2.10.012	Land line	VODAFONE	13/11/2017 10:49	1/1 6/6 1 65% 100%	
0003105086	00052436800030	00:00:00:54:10:22		2.10.012	Land line	VODAFONE	13/11/2017 10:49	1/1 8/8 0 32% 100%	
0002805021	00052436800033	00:00:00 54:10:25		2.10.012	Land line	VODAFONE	13/11/2017 10:51	1/1 4/5 0 48% 100%	
0004405112	00052436800034	00:00:00:54:10:26		2.10.012	Cell line	MOVISTAR	25/08/2017 13:05	1/1 6/6 0 39% 100%	
0003105072	00052436800035	00:00:00 54:10:27		2.10.012	Cell line	VODAFONE	13/11/2017 10:51	1/1 7/7 0 100% 100%	
0003105078	00052436800044	00:00:00:54:10:30		2.07.000	Land line	VODAFONE	26/09/2016 17:05	1/1 9/9 0 68% 89%	

Showing 1 to 10 of 178 entries

Previous 1 2 3 4 5 ... 18 Next

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Big Data

Goals

TO KNOW, TO PREDICT, TO PREVENT

1. Learn from one user
   Profile: *what is normal?*
   Anomalies: *what is not normal?*
   Trends: *what is going on?*

2. Learn from all users
   Patterns: *what usually happens?*
   Classifications: *what groups are there?*
   Relations: *which events are related?*

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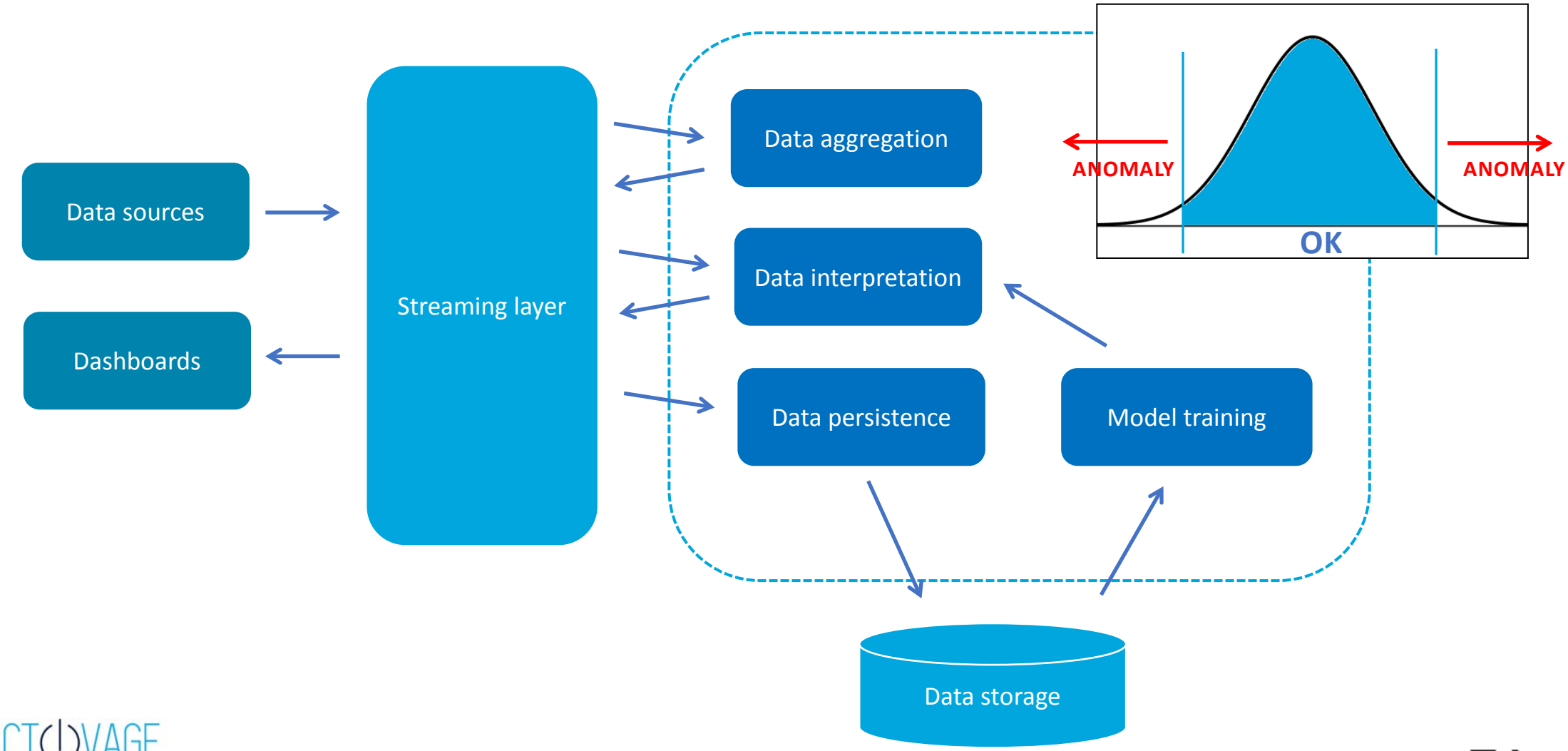
Big Data

Architecture



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Experts knowledge is key…..

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…as is the “quality” of data

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THANK YOU

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