#heero

HeERO 112

Harmonised eCall European Pilot

Spanish Pilot site
Filtering instance integration with traffic management

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HeERO International Conference

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Madrid, Spain

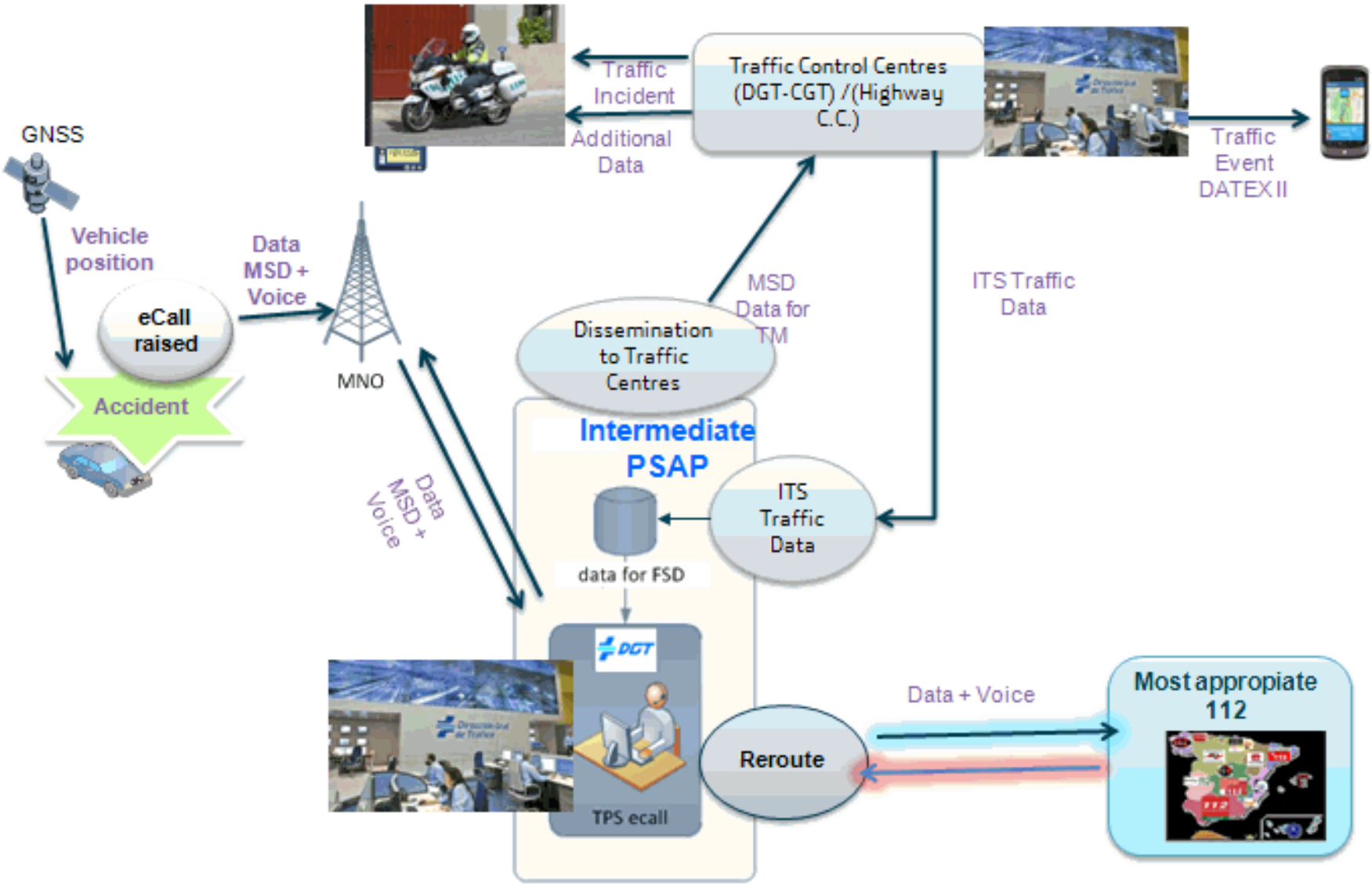
Agenda

- Spanish consortium
- Spanish eCall Architecture
- Main challenges
- Interface with Traffic Management Centre

A lot of Spanish partners and stakeholders

- A lot of partners
  - Public Administration: DGT, Civil Protection, Regional 112, Gral. Sub. on Telecom. Networks and Operators
  - Commercial partners:
    GMV, CTAG, CEIT, RACC, Telefonica, Ericsson, ITS España, NZI, Ficosa, SICE, CARTIF
- All eCall stakeholders involved
  - Public Administrations, PSAPs, IVS providers, MNO, Automobile Associations, system

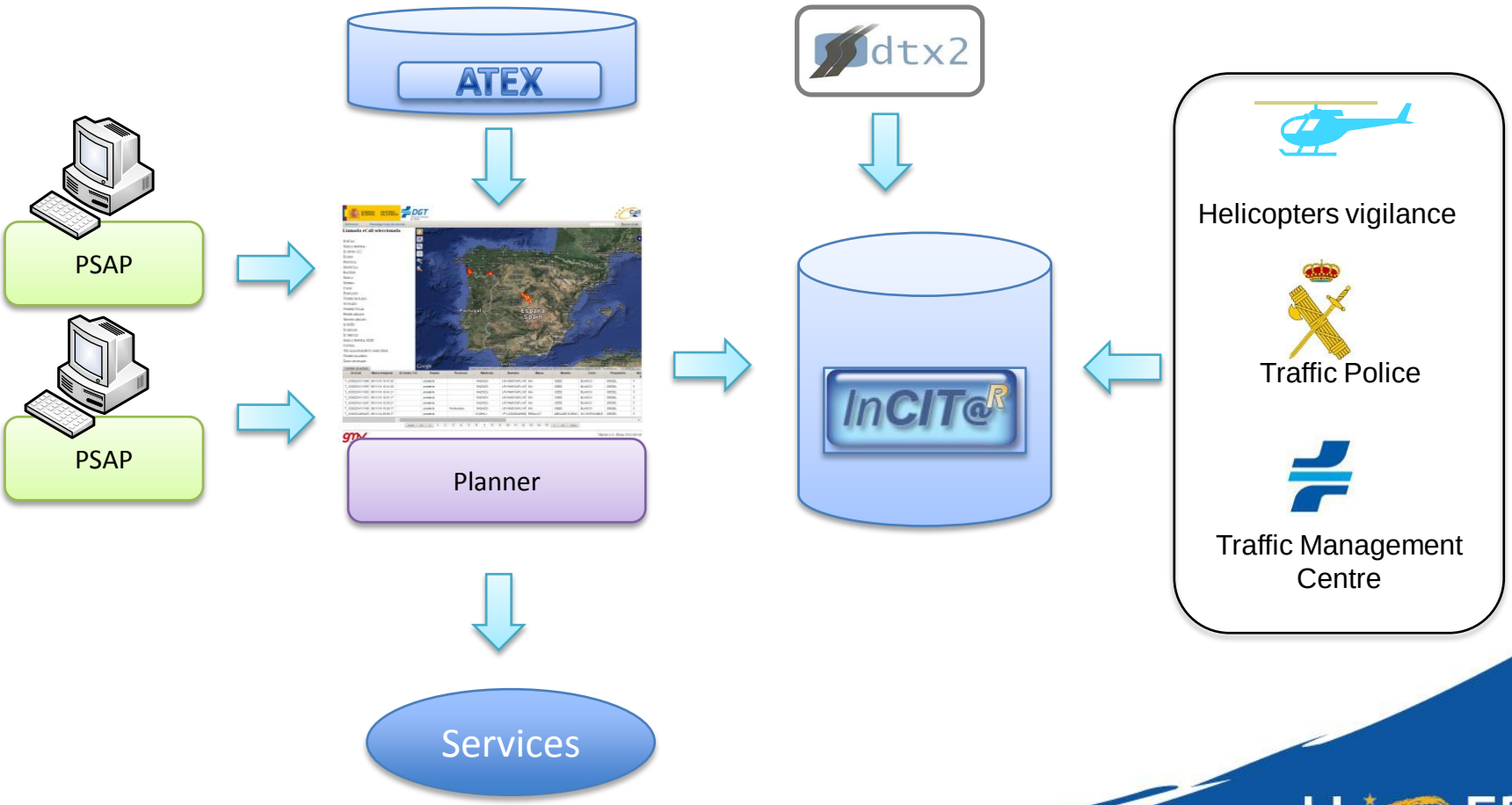
Intermediate PSAP model



Possible eCall model from 1 October 2017

- Results from HeERO2 pilot project will be used for final decision on Spanish architecture
  - Intermediate filtering national PSAP vs. decentralized regional 112 PSAPs
- DGT as HeERO2 pilot coordinator has insisted the commercial partners to have final solutions (no prototypes)

eCall interfaces



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Harmonised eCall European Pilot

Main challenges

- Intermediate PSAP able to decode MSD and filtering received eCall, and having direct interfaces with:
  - Spanish vehicle database
  - Traffic incidents database
  - Traffic police (Guardia Civil)
- 19 decentralized regional 112 PSAPs with competences on emergency services (4 of them in HeERO2 pilot project)
- Different procedures for manual and automatic eCalls

Interface with Traffic Management Centre

- Intermediate PSAP is placed at DGT's central Spanish Traffic Management Centre (including Traffic Control Centre TCC and Traffic Information Centre TIC) allowing interconnection with different system/services via an "**eCall planner**"
  - The Spanish vehicle database: ATEX
  - The Spanish traffic incident database: LINCE/INCITAR
  - The own DGT's traffic police: Guardia Civil
  - Own TCC/TIC road traffic monitoring equipment & systems

eCall planner

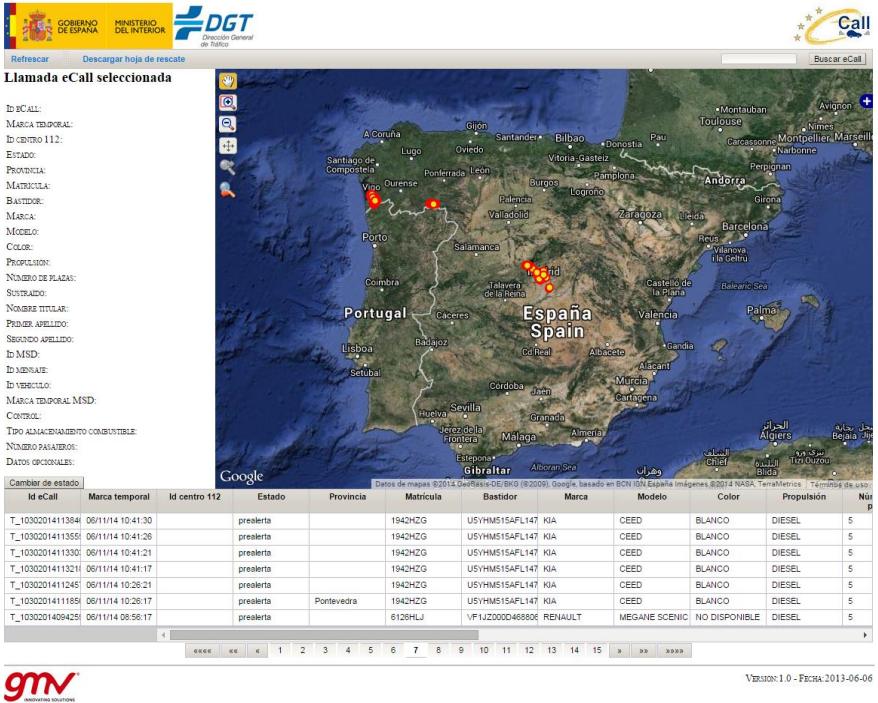
- Interface between eCall system and rest of traffic and emergency systems
- eCall Planner receives the MSD data from the intermediate PSAP via web services:
  - It enriches the information with data from ATEX (DGT vehicle database)
  - It stores all the information
  - It passes some data to LINCE (DGT alerts system)
    - And then to the INCITAR system (traffic incident database)

eCall planner

- eCall Planner provides two standard interfaces:
  - Web services: send eCall data (MSD), consult eCall information and change eCall status (prealarm, alarm, false alarm)
  - Web: contains a map with a layer of eCall events, and the detail of every eCall MSD set of data

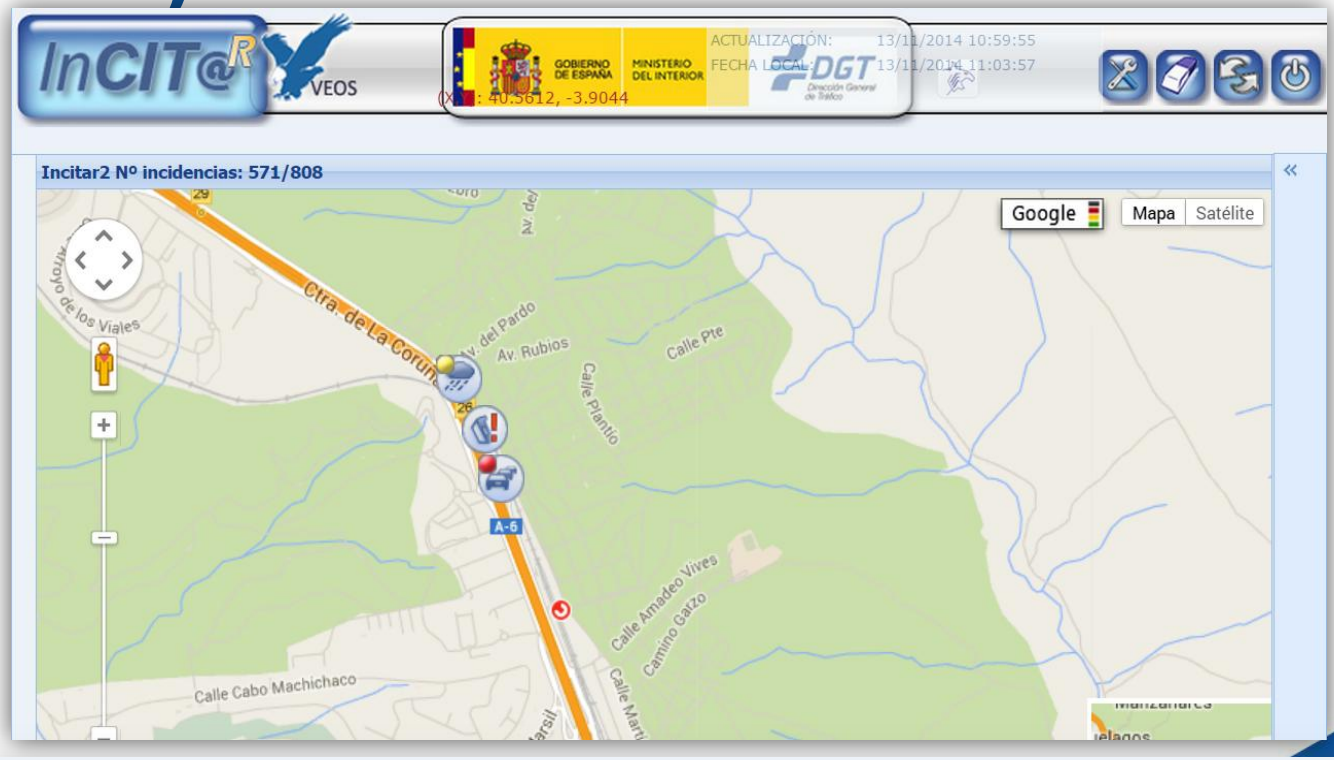
Spanish vehicle database (ATEX)

- Data obtained from this database and integrated with eCall records
  - VIN
  - Vehicle brand and model
  - Vehicle color
  - Number of users
  - Vehicle stolen?
  - Vehicle owner



Id eCall	Marca temporal	Id centro 112	Estado	Provincia	Matrícula	Bastidor	Marca	Modelo	Color	Propulsión
T_1030201411384	06/11/14 10:41:30		prealerta		1942HZG	U5YHM515AFL147	KIA	CEED	BLANCO	DIESEL
T_1030201411355	06/11/14 10:41:26		prealerta		1942HZG	U5YHM515AFL147	KIA	CEED	BLANCO	DIESEL
T_1030201411330	06/11/14 10:41:21		prealerta		1942HZG	U5YHM515AFL147	KIA	CEED	BLANCO	DIESEL
T_1030201411321	06/11/14 10:41:17		prealerta		1942HZG	U5YHM515AFL147	KIA	CEED	BLANCO	DIESEL
T_1030201411245	06/11/14 10:26:21		prealerta		1942HZG	U5YHM515AFL147	KIA	CEED	BLANCO	DIESEL
T_1030201411185	06/11/14 10:26:17		prealerta	Pontevedra	1942HZG	U5YHM515AFL147	KIA	CEED	BLANCO	DIESEL
T_1030201409425	06/11/14 08:56:17		prealerta		6126HLJ	VF1JZ000D466806	RENAULT	MEGANE SCENIC	NO DISPONIBLE	DIESEL

Spanish traffic incident database (LINCE/INCITAR)



Suceso	Carácter	Fecha Inicio	Provincia	Población	Localización	Referencia	Ref.Externa
LLUVIA	ACONTECIMIENTO	13-11-2014 10:54:00	MADRID	CHOPERA (LA)	A-6 (26.6, 20)*	MET_M_A-6(26,3)_141113	
RETENCIÓN DEL TRÁFICO	ACONTECIMIENTO	13-11-2014 10:50:00	MADRID	CHOPERA (LA)	A-6 (26.1, 23)+	REN_M_A-6(23)_141006	
E-CALL	ACONTECIMIENTO	06-10-2014 11:26:25	MADRID	BERZOSILLA (LA)	A-6 (32)S	EME_M_A-6(32)_141006	eCall·HEERO·T_09292014111

Spanish traffic police

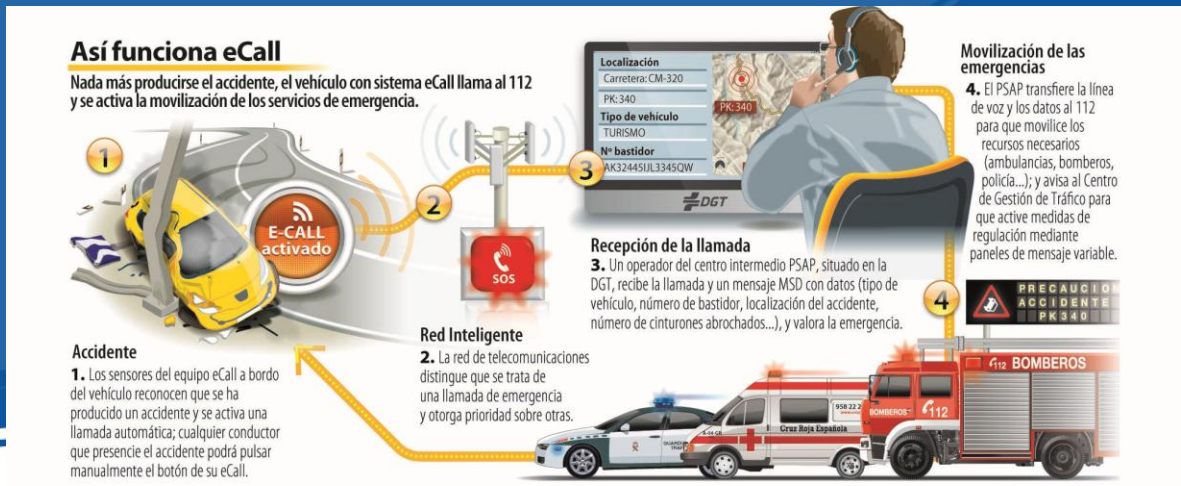
- When an automatic eCall is received, the operator tries to identify if it is a real accident or just a false alarm
  - Establishing a callback to the source of the eCall
  - Obtaining information from the Traffic Management Centre
    - CCTVs, Traffic Data Capture stations
  - Sending traffic police for a first inspection & eCall validation

Traffic Management Centre (TCC & TIC)

- **eCall Demo. Visit on Friday 28th**
  - eCall interface with Traffic Management
    - equipment and systems used for road traffic monitoring

SENSORES DE TRÁFICO
SE-30 Pk 8.05 C
Intensidad : 1200 Veh/h
Velocidad media : 37 km/h
Ocupación : 8 %
Ligeros : 94 %

PANELES DE TRÁFICO
M-45 Pk 0.29 C

Thank you for your attention!
Questions?

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