



EasyWay

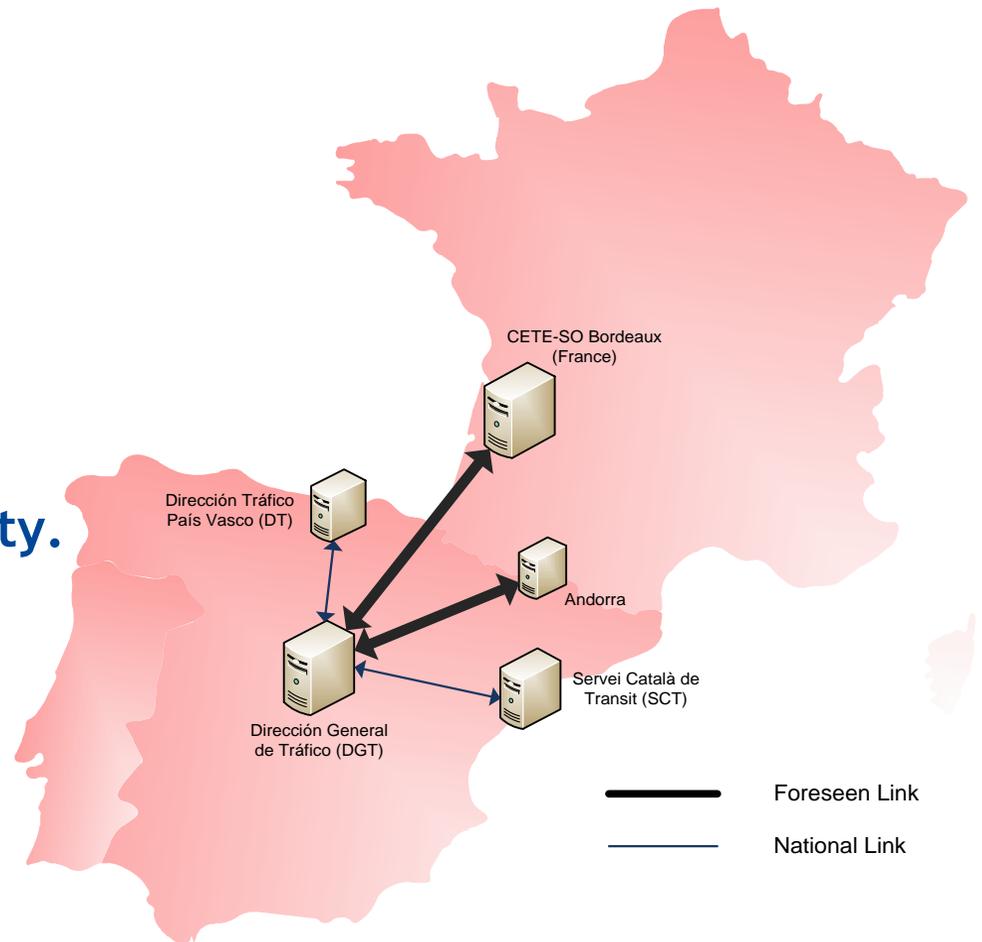
Spanish DATEX II Deployment

Jose Garcia
Lisitt/Univ.Valencia

- **Past:** Spain is member of the DATEX I network since the end of nineties.
- **Present:** DATEX I to DATEX II migration has been performed.
- **Future:** Advances and benefits are expected implementing DATEX II:
 - Growth of DATEX network (external and internal links).
 - Enhanced quality of information exchanged.
 - Improved security and reliability of links.
 - Opening of new possibilities: new location systems, traffic data, customized publications (such as TMPs), etc..



- 3 operational nodes.
- 2 international links.
 - France.
 - Andorra.
- 2 national links.
 - Nat. Authority ↔ Reg. Authority.
- Feeding services:
 - RDS-TMC.
 - Traffic web viewers.
- To be switched off in late 2012.



Traffic competences in Spain



Dirección General de Tráfico



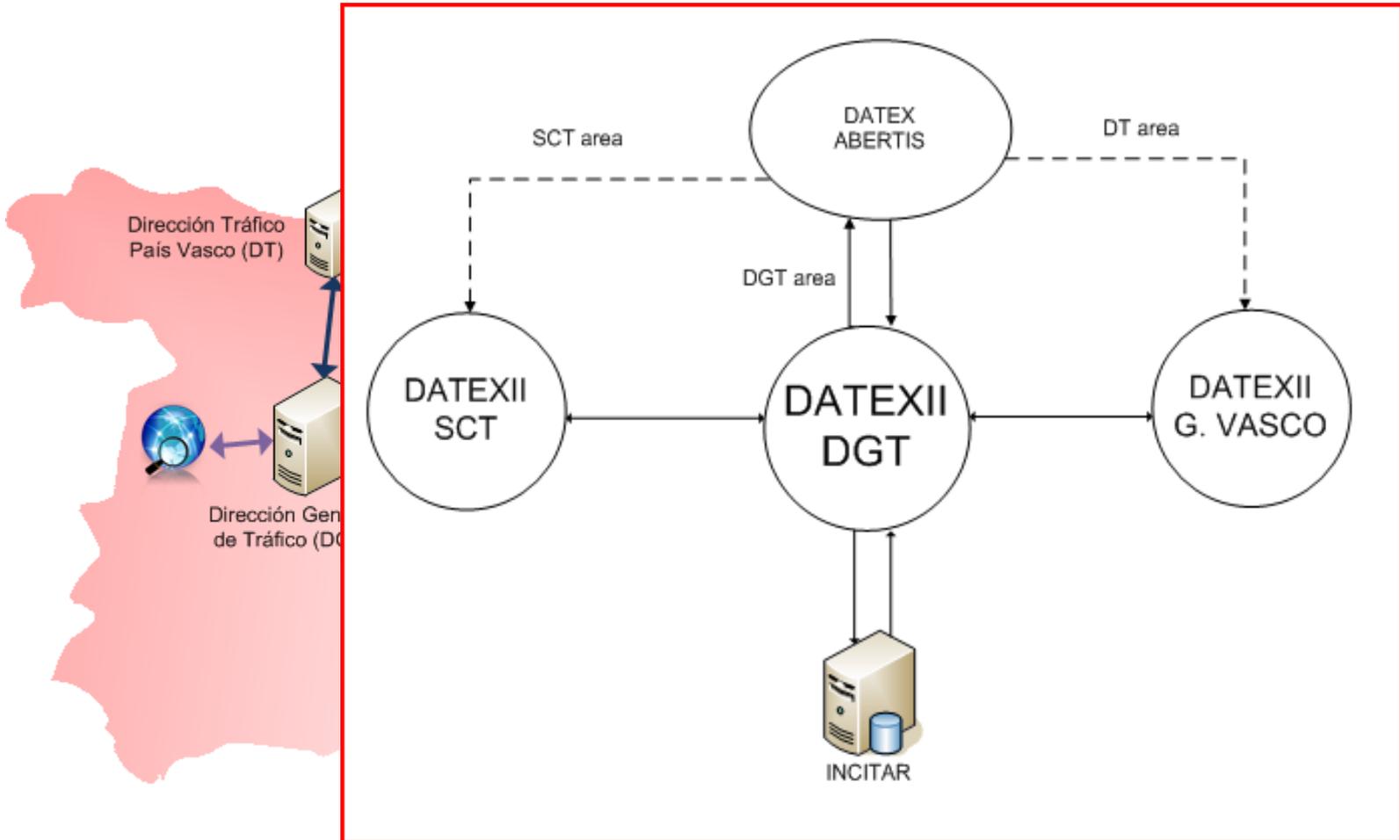
Servei Català de Trànsit



**Departamento de Transportes
Del Gobierno Vasco**



DATEX II traffic situations – Internal architecture

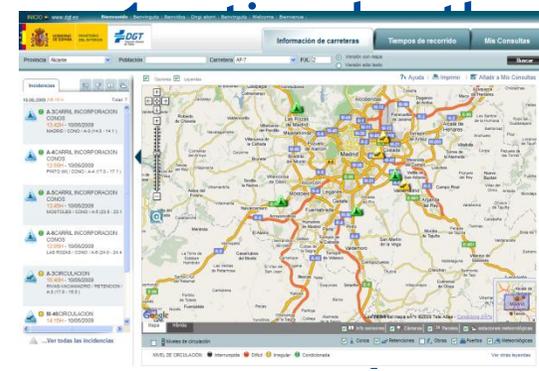


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 • DGT → traffic web viewer.

DATEX II traffic situations – Internal architecture



- 4 operational nodes.



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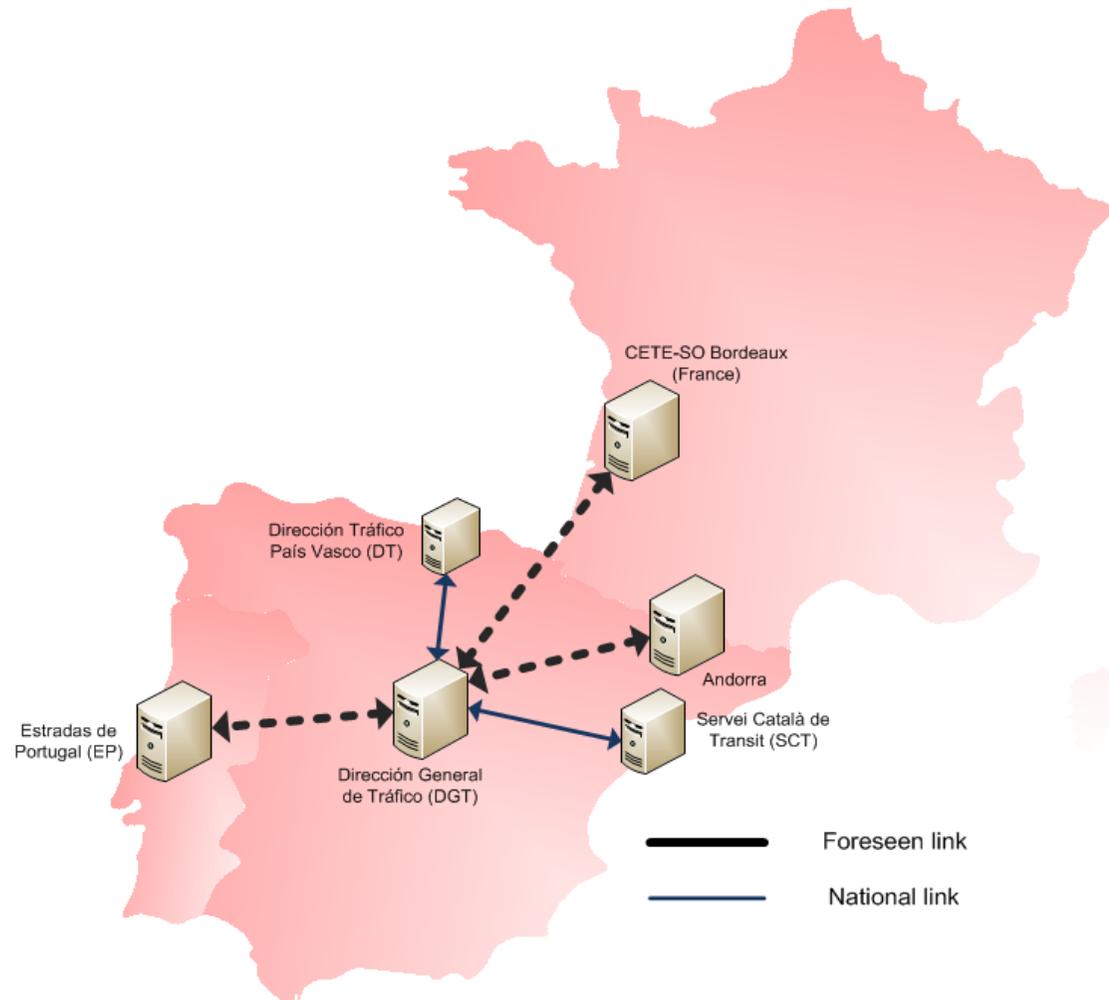
- SCT → Catalonia.
- ABERTIS → the highways.
- DGT → the rest area in Spain.
- Feeding services.

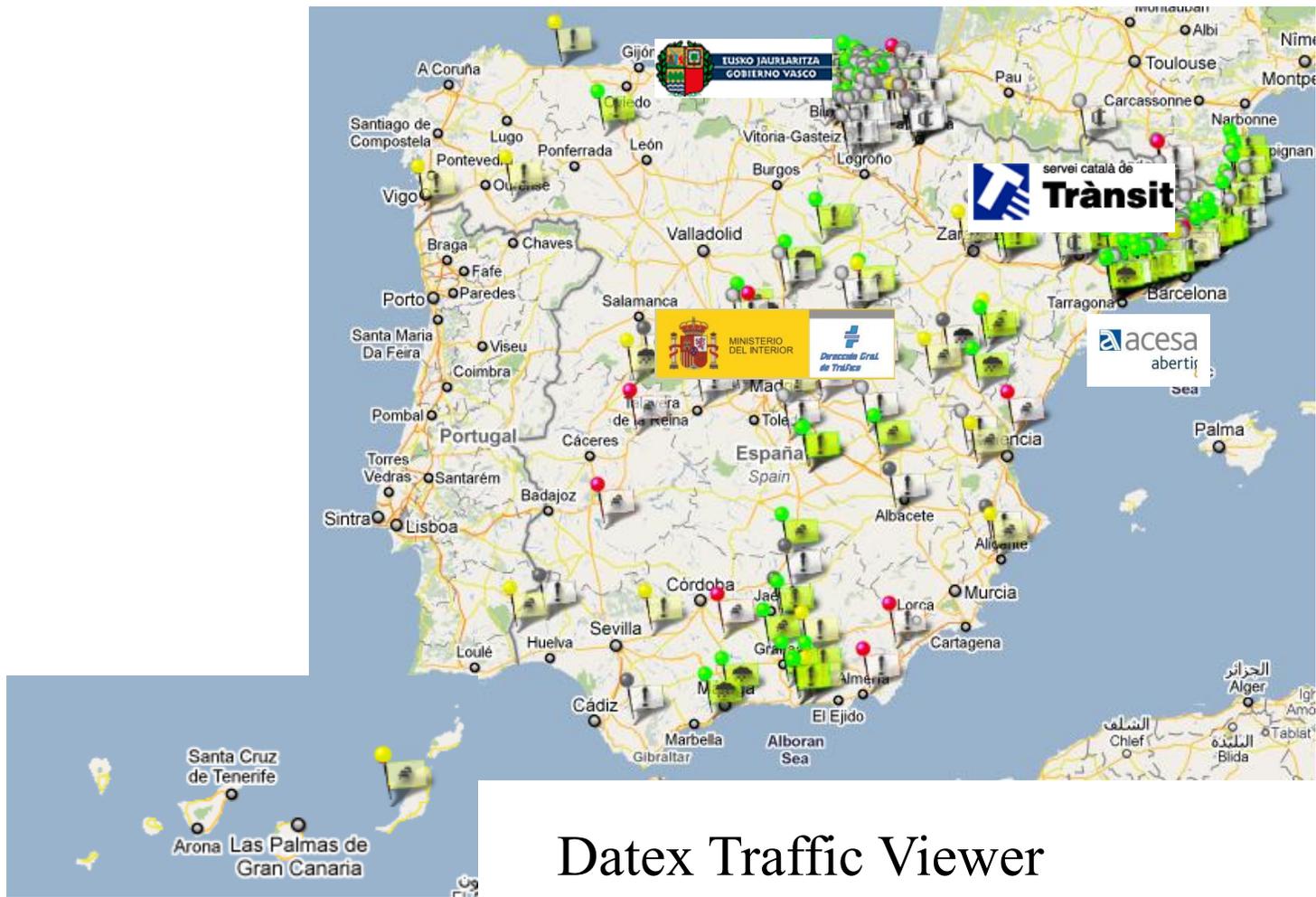
- DT → Phone number, RDS-TMC.
- DGT → Traffic web viewer.

- Testing phase is finished.
- In operation:
 - All three nodes are exchanging information.
 - Nat./Reg. Authorities **MUST** validate the information received from the Motorway Concessionaries.
 - Gathering information to a first evaluation.
- Profiles implemented:
 - Reg. / Nat. Nodes: Full profile.
 - Motorway concessionaries: LCP.
 - Feeding services: Client LCP.
- Exchange characteristics:
 - Locations: Alert-C, LinearElements, TPEG.
 - Filtering: type, road, impact.

DATEX II traffic situations – International scenario

- International links:
 - Portugal (testing).
 - France (testing).
 - Andorra (future).
- Centralized architecture:
 - Only DGT delivers information.
 - 1 service, 3 publications.
 - Traffic information from concessionaries is integrated into other publications.

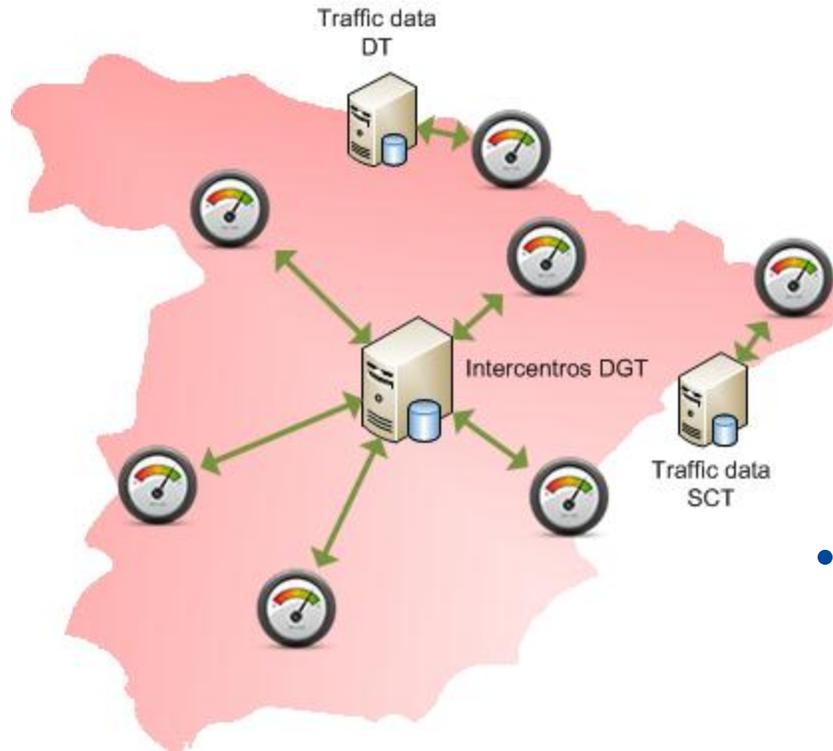




Datex Traffic Viewer



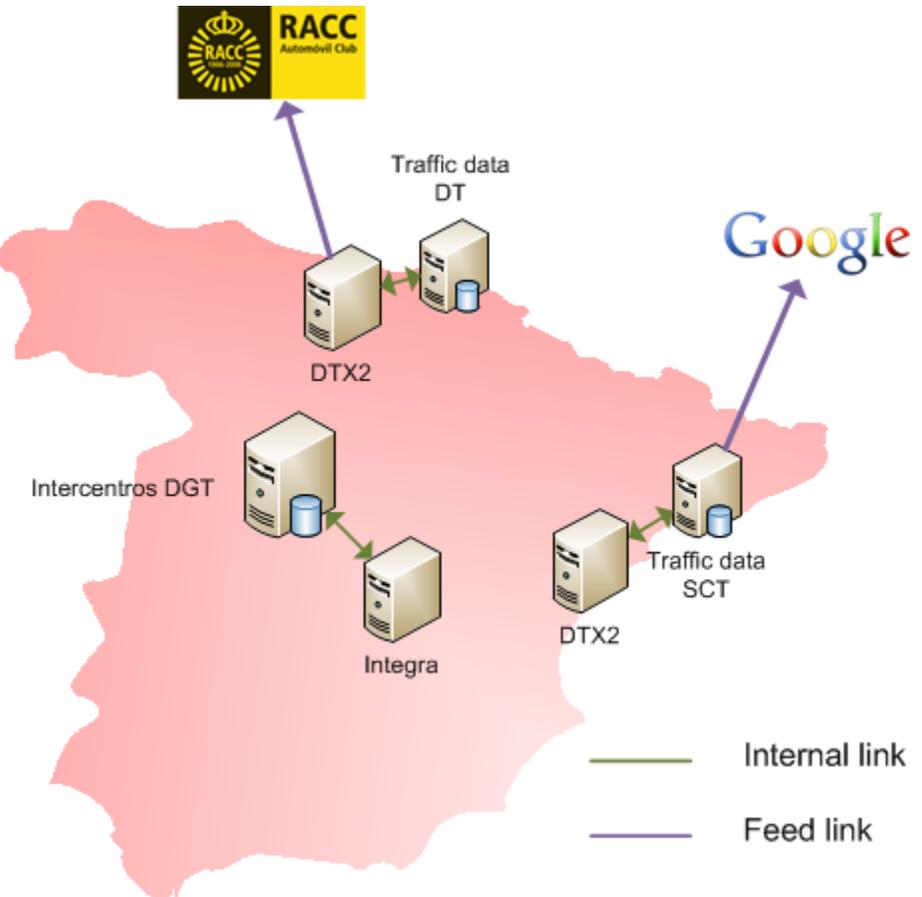
DATEX II traffic data – Internal architecture



- **Organization:**
 - Proprietary systems and protocols.
 - 1 national authority (DGT).
 - Global system: Intercentros.
 - Gets information from regional centers.
 - 2 regional authority (SCT, DT).
 - Councils and other (maybe).
- **Data:**
 - Inventories of equipment.
 - Traffic data: speeds, occupation, etc.
- DATEX II migration started in 2011.

DATEX II Traffic data – National architecture

- Available information:
 - Elaborated / measured data.
Measurement site table.
- Static locations are separated (Predefined Locations Publication).
- Profiles implemented:
 - Nat. Reg. authorities: Pull, LCP.
 - Feeding services: Client LCP.
- First tests: large amount of data.
- No links yet (internal / external).
- Feeding services:
 - Traffic speeds: RACC (Basque Country), Google (Catalonia).



- **Traffic situations:**
 - DATEX I - DATEX II migration in final phase.
 - DATEX II network is fully deployed in Spain.
 - International links to test in 2012 (Portugal, France).
 - Feeds enabled: RDS-TMC, traffic web viewers, traffic phone number.
- **Traffic data:**
 - DATEX II migration has just begun.
 - To do list: enable links, test and evaluate the systems, fix some issues (large amount of data).
 - Feeds enabled: RACC, Google (level of service integration).



EasyWay

Thank you for your attention