

***iRAP Project  
Catalonia  
Government***

***Ljubljana, june 2016***

***Xavier Flores Garcia***

***General Director of Land  
Mobility Infrastructures***



Generalitat de Catalunya  
**Departament de Territori  
i Sostenibilitat**

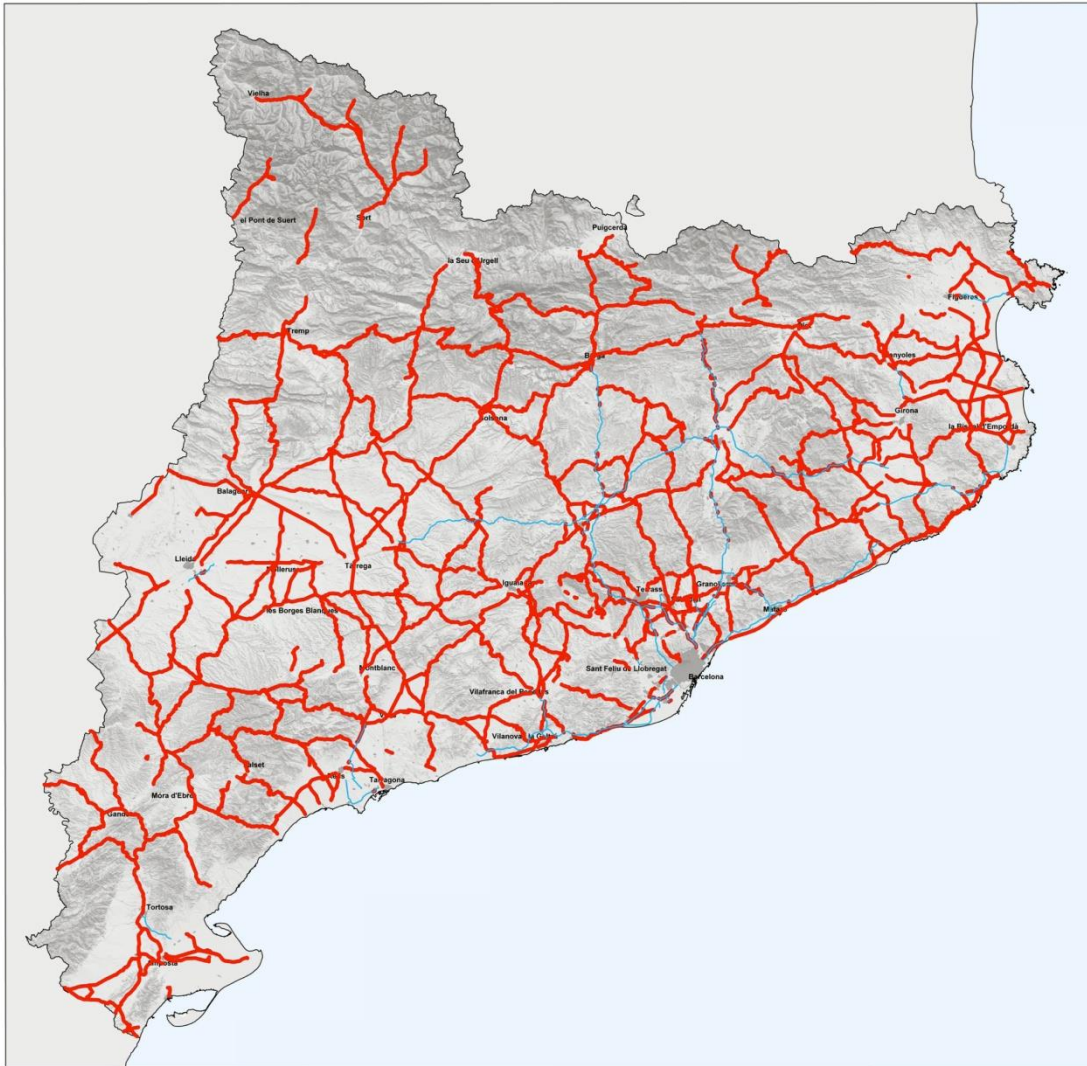
# Catalonia

## Main Information

Capital	Barcelona
Area (km <sup>2</sup> )	32.000
Municipalities	947
Populations (milion inhabitants)	7,5
Density (Inhabitants / km <sup>2</sup> )	235
GDP (billion €)	200
Terrestrial merchandise (tons)	325
Road network (km)	12.138



# GenCat Road network



*Length*

6.082 km

*Daily Traffic Flow*

7.231 veh/day

*Users*

842 M travels / year

*Merchandise*

48 M Tons / year

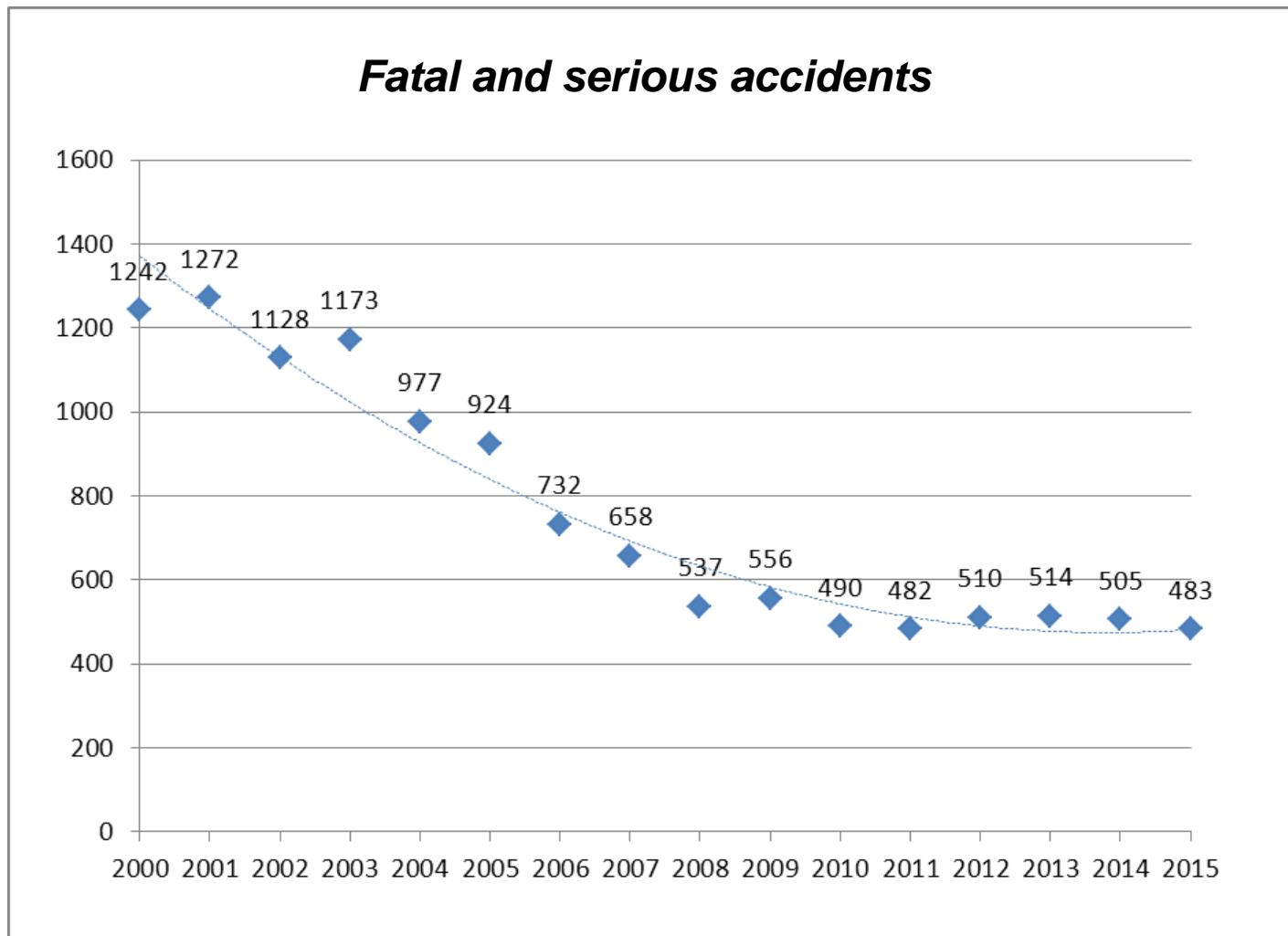
*Divided carriageway roads*

678 km  
(11%)

*Single carriageway roads*

5.404 km  
(89%)

# Evolution of road accidents at GenCat road network



# Strategic Plan of Road Administration



# iRAP Evaluation Strategical Objectives

## TRANSPARENCY AND ROAD AUDIT

Indicator of state of road network

Transparency database iRAP

Vision Zero

## PROMOTION OF PUBLIC POLICY FOR IMPROVEMENT OF ROAD NETWORK

Objective of continuous improvement of  
safety levels of existing road network

Smart Roads

Efficiency

Effectiveness

Evaluation

Sustainability

iRAP 2016-2018

# iRAP Vision Zero Strategical Objectives

## TRANSPARENCY AND ROAD AUDIT

*Indicator of state of road network*  
*Transparency and iRAP*

**Safety**  
**Vision Zero**

*risc*  
*autoprotecció*  
*consors*  
*programa*  
*vulnerables*  
*lleus*  
*TCA*  
*mesures*  
*separadors*  
*frontals*  
*formació*  
*2050*  
*prevenció*  
*portals*

## PROMOTION OF PUBLIC POLICY FOR IMPROVEMENT OF ROAD NETWORK

*Objective of continous improvement of  
safety levels of existing road network*

## MODEL OF PREVENTIVE ROAD SAFETY

*Acting on the road before the accident  
occurs. Continous improvement of road  
network*

## GLOBAL TARGET ACHIVEMENT

*Setting a minimum classification SRS to  
achieve with the road safety policies*

# iRAP GenCat 2016-2018

## Phase 0

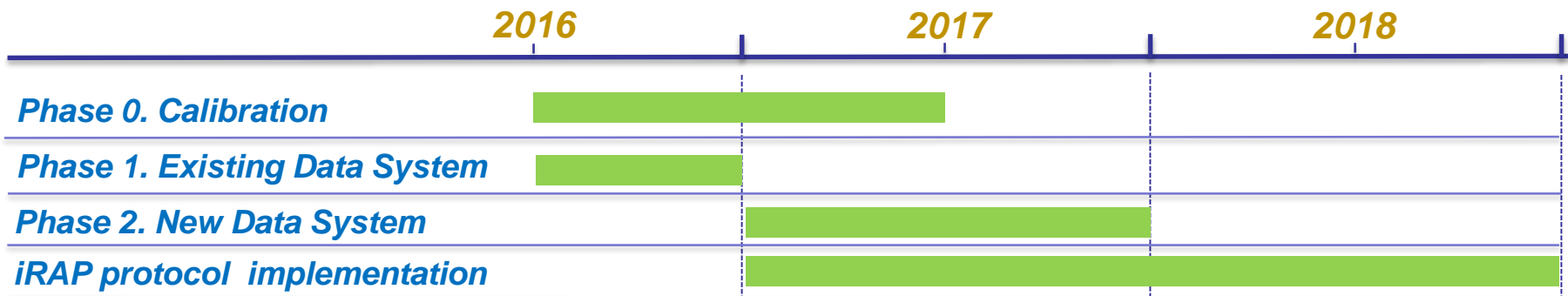
**Calibration.** iRAP protocol adaptation to the particular case of catalonian road network. Update/compare with pilot test results iRAP 2013

## Phase 1

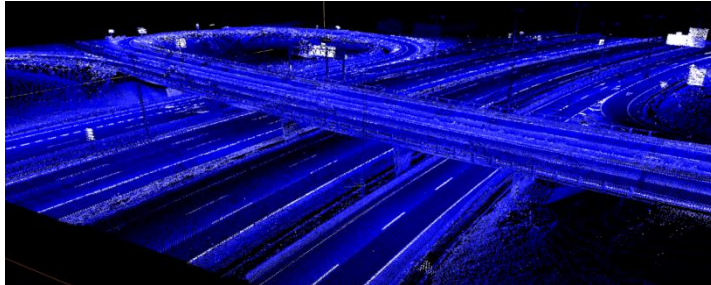
**Existing Data Systematization.** Design of algorithms that allow the use of **existing data** in the current management systems. Basically at this stage we will automatically use the **parameters relating to the road itself**. Beginning of **Implementation of iRAP (Avaluation)**

## Phase 2

**New Data Systematization.** Design of algorithms to introduce regularly **new data** in the management systems, wich will serve as input parameters for the VIDA program. This phase is basically related with the **parameters of the environment of the road**. Continue **implementation of iRAP (Vision Zero)**







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