

Mobilidata INFOSESSIE

Vlaams
Verkeerscentrum



Vlaamse
overheid

AGENTSCHAP
INNOVEREN &
ONDERNEMEN



Vlaanderen
is ondernemen



DEPARTEMENT
ECONOMIE
WETENSCHAP &
INNOVATIE



AGENTSCHAP
WEGEN & VERKEER



Vlaanderen
verbeelding werkt



Vlaanderen
is mobiliteit &
openbare werken

umec

embracing a better life

MISSION STATEMENT MOBILIDATA

What?

Positive contribution in Flanders in related to

- **Road safety**
- **Traffic throughput**
- **Emissions**

How?

Realisation of a sustainable digital **data-infrastructure** and the stimulation of the use thereof within **innovative applications**

Conditions?

This infrastructure must be able to function as a step-stone for a data-infrastructure which supports **autonomous vehicles** in Flanders.

USE CASE CATEGORIES WITHIN MOBILIDATA

Roll-out of C-ITS applications with intelligent traffic light control systems

- Traffic control system status communication
- Time to red/green
- Optimisation traffic control through vehicle data
- Priority-setting public transport & logistics
- Priority-setting emergency services
- Priority-setting (groups of) cyclists
- ...

Roll-out other C-ITS applications

- In-vehicle signage
- Road hazard warning
- Roadworks warning
- Speed advice
- Parking monitoring & guidance
- ...

R&D next-gen smart mobility applications

- New applications for cyclists and pedestrians (in particular at/near intersections)
- Next-gen truck guidance
- ...

Public policy supporting applications

- Mapping of traffic flow (OD)
- Preponderance of different types of (disturbing) events and impact on traffic throughput
- ...

Final choice on use cases (within each of the 4 categories) is made within the program, based on an extensive analysis that includes information gathered as a result of **the active consultation of all involved public and private stakeholders.**

APPROACH

Private

Build and exploit commercial products and services (C-ITS & beyond, supporting public policy, etc.)

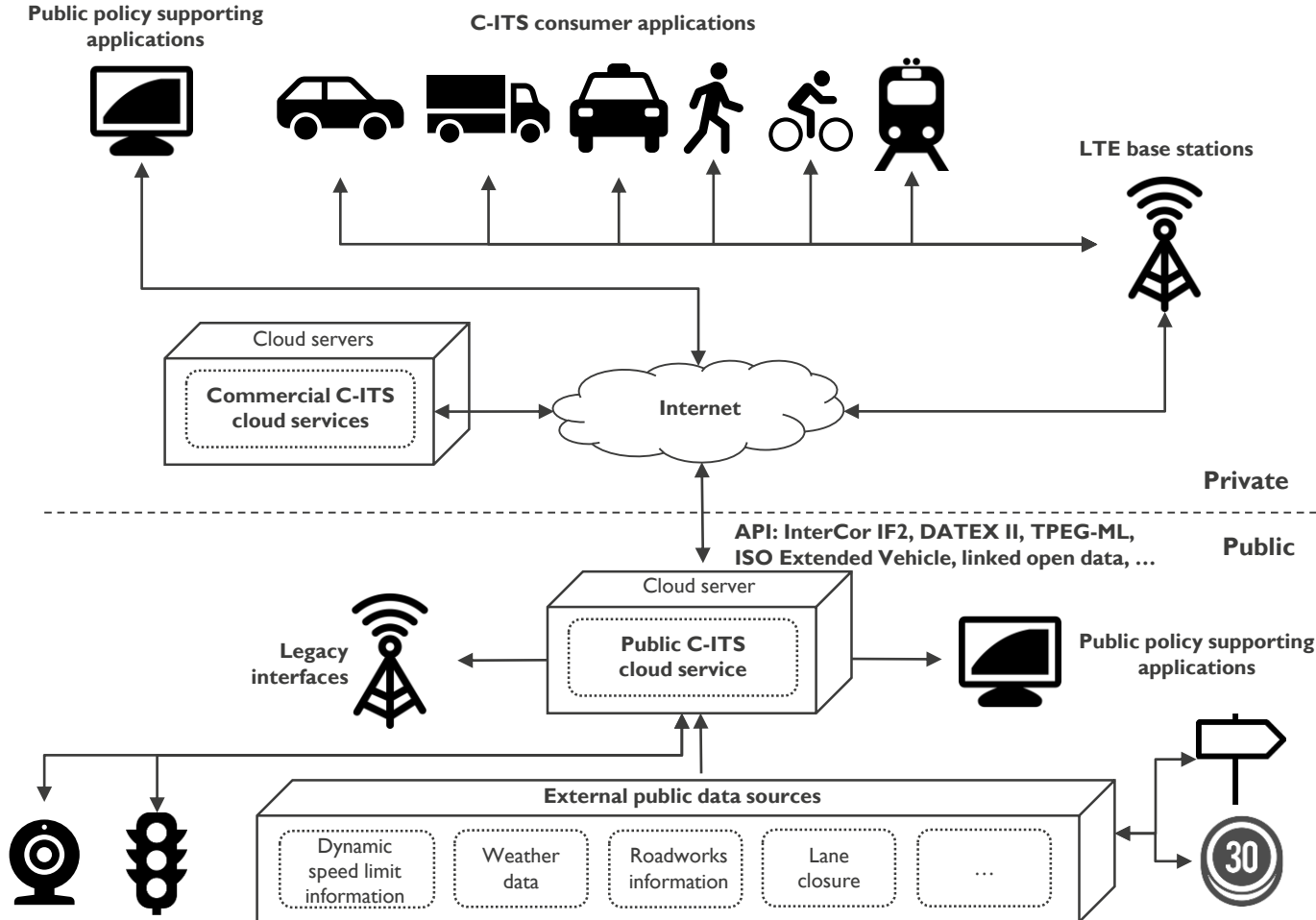
- Integrate public data within these products
- Dialogue with public policy makers on needs and requirements
- ...

Public

Public policy development

Facilitate data-infrastructure

- Stimulate the integration of data in (innovative) applications
- Roll-out of public infrastructure: intelligent traffic light control systems, sensors, etc.
- ...



WHAT DOES THIS MEAN FOR THE MARKET?

- **Performance guaranties** (including latency) and **quality indicators** for available data streams
- **Disclose and streamline public data streams:**
 - **To enable new use cases** (i.e. proximity of rescue services, bridge open/closed, connected traffic lights, etc.)
 - **To facilitate existing use cases** (i.e. dynamic speed limits, rush-hour lane status, road hazard warnings, roadworks warnings, parking data, etc.)
- **In short:**
 - we do *not* build these applications on ourselves
 - as a public service, we provide new and existing data for new and existing applications
 - and thus achieve a higher impact for our policy objectives.

PROGRAM TEAM

Agency for Roads and Traffic (incl.VVC)

Core tasks & unique expertise

- Inventory of State-of-the-Art
- Extension existing data sources
- Vision and roll-out
- Connected traffic lights
- Public procurement
- Legal support
- Integration of existing traffic information channels

Department of Mobility and Public Works

Core tasks & unique expertise

- Public support
- Supporting infrastructure
- Impact studies

Department of Economy, Science & Innovation

Core tasks & unique expertise

- Shaping of innovative procurement trajectories
- Public procurement

imec

Core tasks & unique expertise

- Architecture
- Data quality
- Privacy & security
- Impact evaluation
- R&D next gen. use cases

Program facilitation

- Program management
- Stakeholder management
- Communication & support

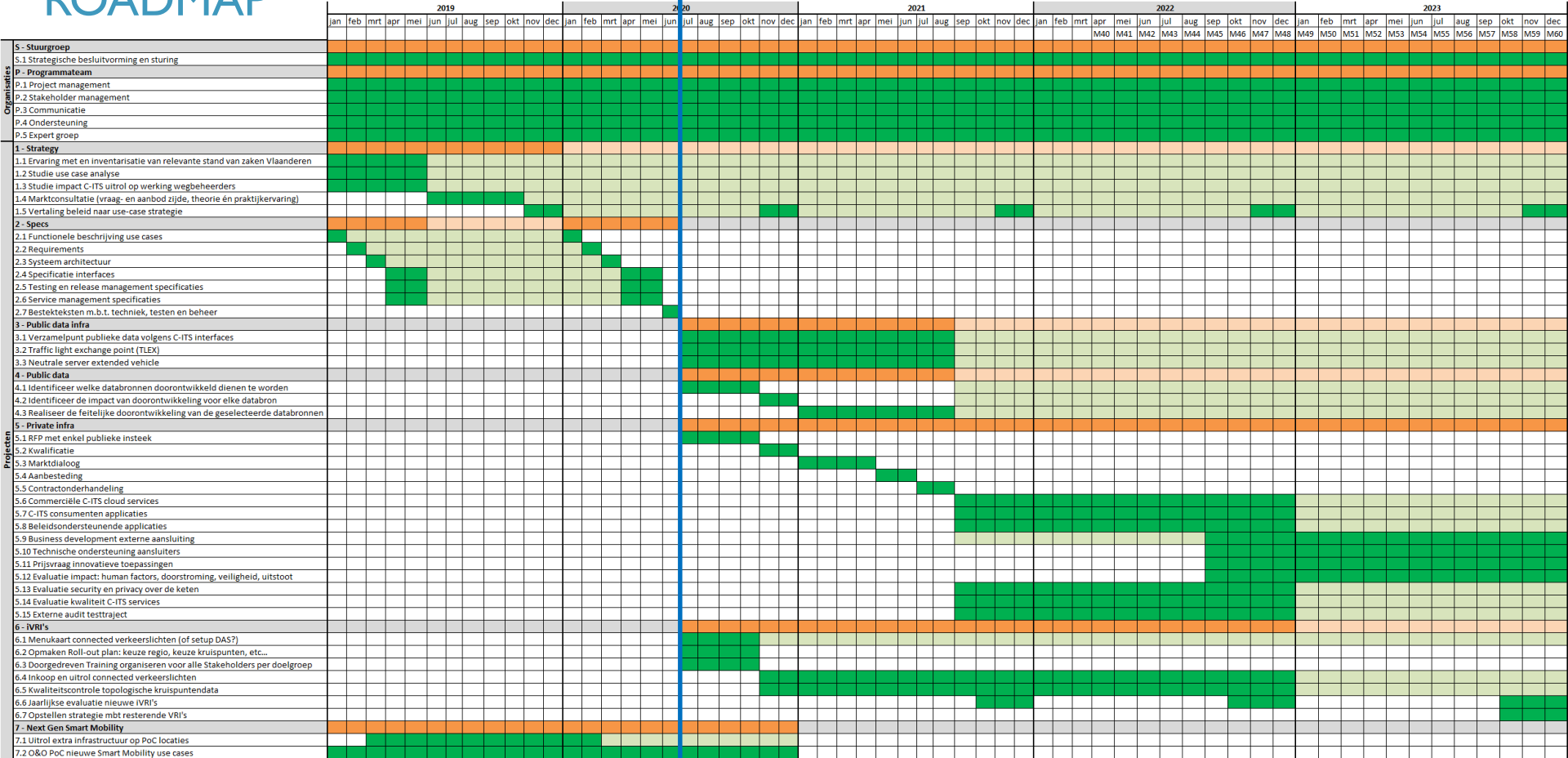
PROJECTS WITHIN THE MOBILIDATA PROGRAM

Name	Scope	Result
1 - Strategy	Dialogue with involved public policy makers and the market parties. Internal study work in relation to the public policy. Identification of public use case strategy.	Use case strategy
2 – Specs	Data-platform specifications in relation to system and management	System specifications for public procurement
3 - Public data infra	Public C-ITS cloud services (traffic light exchange point, neutral data server, collection point for public data according to C-ITS interfaces)	Public data services
4 - Public data sources	Further development of public data sources (i.e. road registry, GIPOD, AWV lane signalisation & induction loops, VVC DATEX II feed, MOW road sign database)	Improved/new public data sources
5 - Private infra	Flemish ecosystem of commercially available C-ITS cloud services, C-ITS consumer applications and policy support applications	Commercial data services & applications
6 – iVRI	Large-scale roll-out of intelligent traffic light control systems (iVRI) in Flanders	Roll-out iVRI
7 - Next Gen Smart Mobility	Prototypes for new C-ITS developments (i.e. increased support for pedestrians and cyclists, next gen truck guidance within and surrounding harbours)	Insights resulting from R&D

BUDGET

- Total budget: 29 million euro
 - This includes 23 million in contracting spread over several public procurement actions
 - Consultancy support to AWW, MOW, imec
 - Contribution of private market to project “2 Specs”
 - Public C-ITS components: cloud platforms, intelligent traffic light control systems
 - Private C-ITS components: cloud platforms, end-user applications
 - External audits: verification actions, topological data
- Additional financing (pending proposal approval)
 - CEF (under review INEA) → potential for upscaling of roll-out

ROADMAP



Looptijd project
Activiteiten op volle kracht
Activiteiten op verminderde kracht

DETAILS MI-MI8

		2019												20					
		jan	feb	mrt	apr	mei	jun	jul	aug	sep	okt	nov	dec	jan	feb	mrt	apr	mei	jun
Organisaties	S - Stuurgroep																		
	S.1 Strategische besluitvorming en sturing																		
	P - Programmteam																		
	P.1 Project management																		
	P.2 Stakeholder management																		
	P.3 Communicatie																		
P.4 Ondersteuning																			
P.5 Expert groep																			
	1 - Strategy																		
	1.1 Ervaring met en inventarisatie van relevante stand van zaken Vlaanderen																		
	1.2 Studie use case analyse																		
	1.3 Studie impact C-ITS uitrol op werking wegbeheerders																		
	1.4 Marktconsultatie (vraag- en aanbod zijde, theorie én praktijkervaring)																		
	1.5 Vertaling beleid naar use-case strategie																		
	2 - Specs																		
	2.1 Functionele beschrijving use cases																		
	2.2 Requirements																		
	2.3 Systeem architectuur																		
	2.4 Specificatie interfaces																		
	2.5 Testing en release management specificaties																		
	2.6 Service management specificaties																		
	2.7 Bestekteksten m.b.t. techniek, testen en beheer																		

I.1 EXPERIENCE WITH AND INVENTORY OF STATE-OF-THE-ART IN FLANDERS

- **Thorough analysis of the C-ITS landscape in Flanders**
 - What are the policy objectives and associated roadmaps?
 - What is current status of the physical and digital infrastructure?
 - What data is currently available at Flemish and local government level? What is the data quality?
 - What platforms and services are used?
- **Analysis of ongoing C-ITS initiatives**
 - Projects: InterCor, C-Roads, CITRUS, Socrates2.0, Concorda, Smart Highways, etc.
 - Lessons learned, scope, technical aspects, etc.
- **Gap-analysis interoperability**
 - Inventory of intelligent traffic light control systems in Flanders (AWV + other stakeholders)
 - Existing traffic light control systems in Flanders, compared to other existing iVRI's in NL, DE, US
 - Specific attention to traffic light computers in Ghent and Antwerp.

I.2 STUDY USE CASE ANALYSIS

- **Analysis of use cases**
 - Definition and description
 - Identification of stakeholders
 - Identification of current status of physical and digital infrastructure
 - Data-related properties: data-requirements, responsibilities, costs, customers, etc.
 - Societal Cost Benefit Analysis: road safety, traffic flow, etc.
 - Research status for every use case (maturity): lab-test, proof of concept, proof of principle, roll-out phase, RL evaluation available, etc.
 - Operational management
 - Specific for iVRI: definition, workshops, identification of maximum-impact locations
- **Clustering of use cases** depends on stakeholders and roll-out planning
- **Research of impact on related organisations**
- **Alignment with CCAM/CAD strategy in Flanders**

I.3 STUDY IMPACT C-ITS ROLL-OUT ON ROAD MANAGERS

- **Analysis of impact C-ITS in other countries:**
 - Organisation level
 - Operational functioning
 - iVRI:
 - Drafting and adaptation of V-Plan
 - Activation of planning
 - Remote monitoring
 - Quality control and monitoring
 - Operation of traffic light control centre
 - Other (data) services
- Drafting of **action plan** with prioritisation of roll-out, resources, stakeholders tasks, etc.

2. SPECS

- **Version 1:** to be used as input for private market consultation
- If and when possible: **merging of similar activities from other projects.**
 - Use case description
 - Requirements
 - System architecture
 - Specification interfaces
 - Testing and release management specifications
 - Service management specifications
- **Public-private vision** is contained within **Version 2**, as a result of the market consultation.

STAKEHOLDER MANAGEMENT & COMMUNICATION

▪ **Communication**

- Website vI, including newsletter and central mail contact:
 - www.mobilidata.be
 - info@mobilidata.be

▪ **Stakeholder management**

- First meetings with umbrella organisations were held (VVSG, ITS.be, Agoria, Febiac)
- **No bilateral meetings in relation to MobiliData have been held:** level playing field
- Thorough and transparent interaction with the market is planned (Q3-Q4 2019) through **public market consultation actions**
 - End of June: public release of market consultation (E-procurement & TED)
 - End of September: deadline for submission
 - October – November: interactive dialogue

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