

GRIMALDI STUDIO
LEGALE



WAVESTONE

TNO



KOMIS

2nd Workshop Pilot on **Fair and equal data sharing for cooperative, connected and automated mobility**

Overview and introduction to the second workshop's objectives

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Big Data and B2B platforms: the next big
opportunity for Europe
EASME/COSME/2018/004

EASME - European Commission
Executive Agency for Small and
Medium-sized Enterprises



Brussels
17 Sept 2019



Overview and
introduction to
the second
workshop's
objectives



Items

Pilot Objectives

Main issues to be addressed

Pilot Scope

The main technical challenges

Breakthrough technologies and good practices in our approach

Structure of the Work

Schedule



Pilot objectives (1/2)

Main Objective 1

Prove the concept of a possible solution that can help improving fair and undistorted competition **using a shared data platform.**

Main Objective 2

To **provide input** for studying and demonstrating its potential impact to the European market **analysing opportunities and benefits for independent third-party service providers**, as well as **potential risks of market distortion** by “the winner takes all” effect.

Main Objective 3

Provide insights into a set of required capabilities **of third-party service providers and repairers** to help further develop the European market for connected and automated vehicles: **data privacy, cyber security, liability risks, legislative frameworks for operation, data ownership and IPRs protection.**



Main objectives (2/2)

Main Objective 4

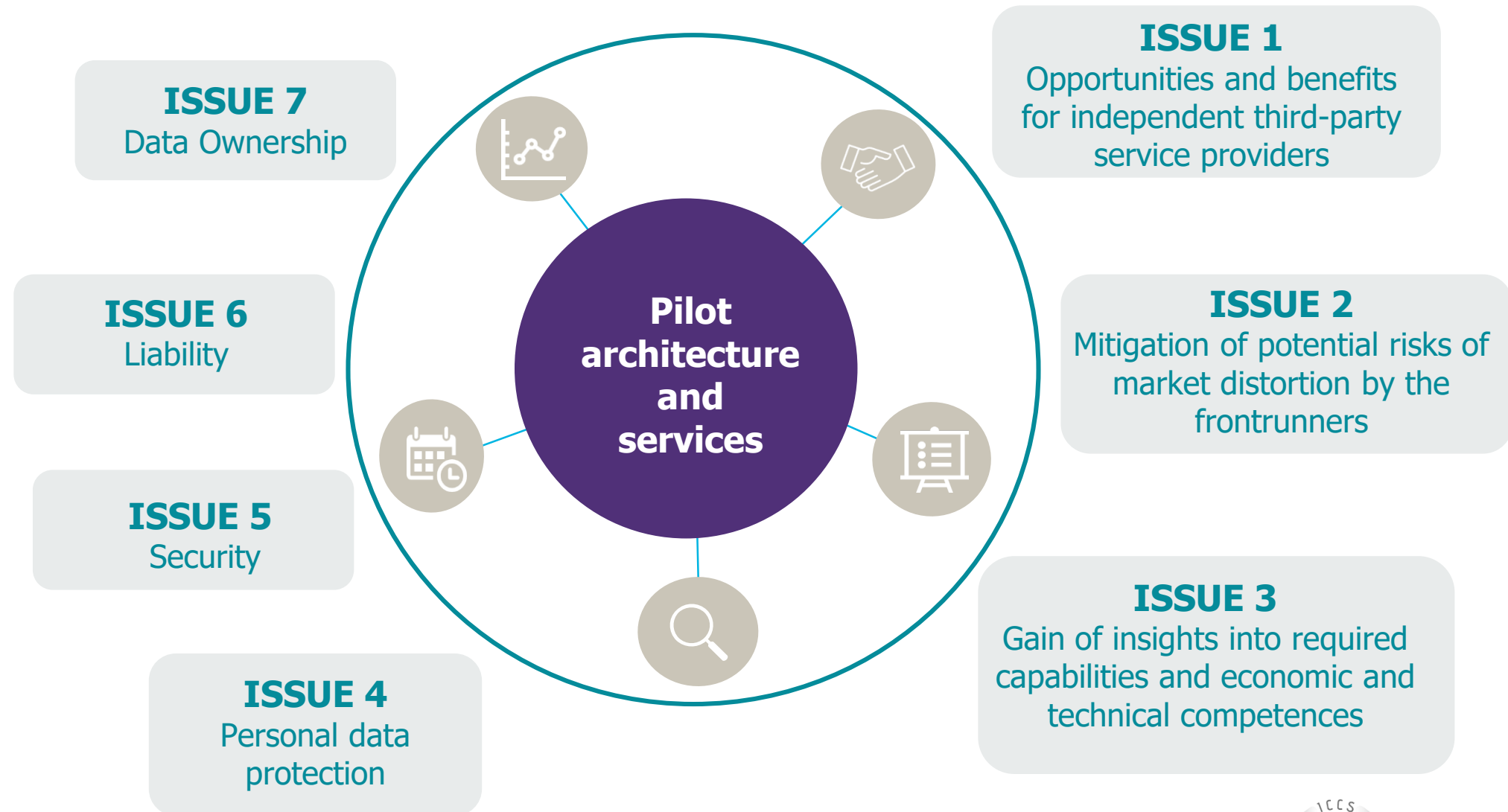
Deliver an architecture that will help industry stakeholders and policy makers **to formalise a common position** based on a set of principles **for the creation of shared EU-wide in-vehicle data platforms.**

Main Objective 5

Provide technical input for drafting sector specific recommendations to the **EU and national policy makers, as well as to the industry.**



Main issues to be addressed



Pilot Scope (1/2)



The main roles

It covers the **Shared Server** operator tasks as well as the role of **potential service providers** that exploit the data which are being provided by the Shared Server.



Shared Server tasks

The pilot is exploring the **user's consent management**, the data **streaming capabilities**, the exploitation **of data at rest** or **aggregated data** by services providers.

Pilot Scope (2/2)



Opportunities for service providers

Potential groups of services **are examined for their feasibility** and **efficiency** taking into account **technical** and **liability** issues.



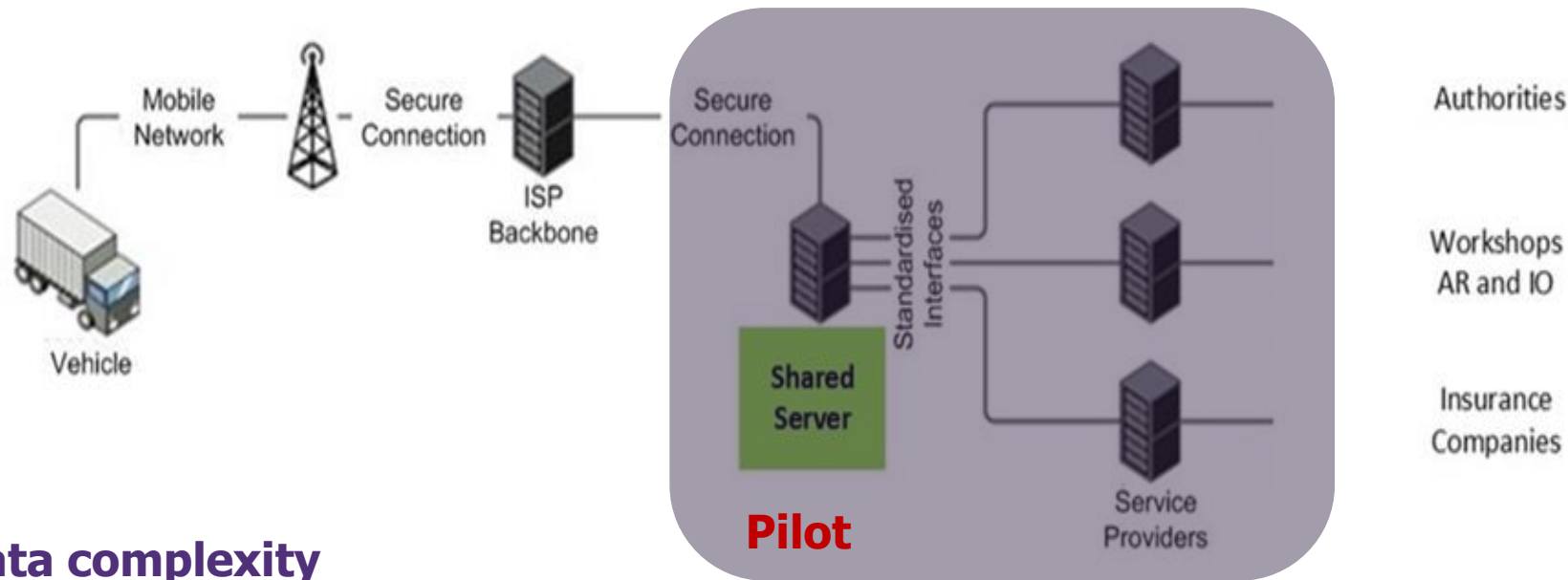
Selecting the proper data sets

The in-vehicle data **that could be shared with third-party** service providers **and feasible solutions for providing** them via common and **open interfaces** are investigated.

The main technical challenges

Latency barriers

The time delay between the transmission of the in-vehicle data until the response of a service from the driver's smartphone



Data complexity

tackling the complexity and variety of the in-vehicle data among the different manufacturers and types approval of the vehicles

Breakthrough technologies and good practices in our approach



Streaming Technology

Streaming Data is data that is **generated continuously by thousands** of data sources. With streaming technology we **run simple response functions with latency** in the order of seconds or milliseconds.



Cloud computing

We get guaranteed SLA, **elasticity** on computational loads, **predictable latency**, **geo-distributed** services and “pay as you go” pricing models.



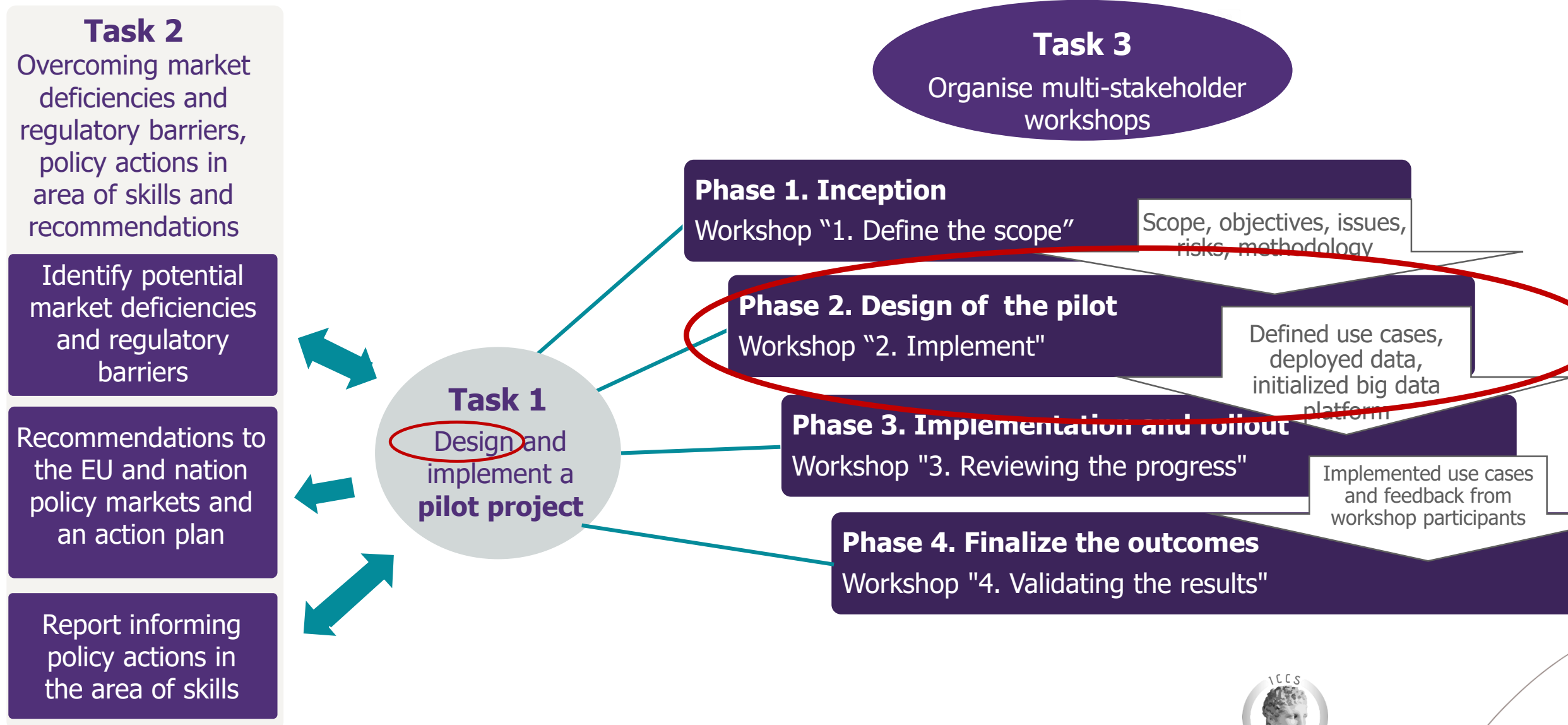
Open interfaces and semantic annotation

Facilitate data access by the service providers in particular for small and medium-sized companies by **offering multi-brand data access via not proprietary interfaces**.

Shared Server concept becomes **more flexible** and would support **near on-line services**



Structure of the Work (1/4)



Structure of the Work (2/4)

Subtask 1. Inception

Workshop 1: Define the scope

Analysis of the Shared Server concept

- Outlining the main opportunities and constraints
- Recognition of the characteristics of the Shared Server concept
- Opportunities arising for SMEs and concerns regarding implementation
- **The requirements** were elaborated in groups: i) operator, ii) architecture, iii) user, iv) restrictions, v) competition, vi) development and approval of services, and vi) attribution of liability.

Proposition of an initial set of services

- Definition of use cases taking into account the functions, required data and constraints
- Added value and impact to road safety and security
- Proposition and prioritisation of additional services
- **A number of services was proposed** about i) Safety and emergency ii) Insurance services iii) Maintenance iv) Parking

Investigation of liability, ownership and competition barriers

- **Open issues on liability** (Contractual and extra-contractual), **data ownership** and the current EU legal framework as well as **competition barriers** were also analysed



Structure of the Work (3/4)

Subtask 2. Design

Workshop 2: "Implement"

- **Summarising** the **main requirements** of the pilot as they were concluded during the first workshop.
- **Possible solutions** will be proposed to tackle the complexity and variety of the in-vehicle data among the different manufacturers and types approval of the vehicles.
- **Considering** that **service providers** would ask **for streamed** data as well as for **"data at rest"** that are stored for later use, an architecture that could sufficiently meet these needs will be proposed.
- **Examining** several **forms of these services** regarding the **computational needs** and the **latency barriers**; an initial assessment of the feasibility and efficiency of these services will be implemented.
- **Privacy issues** will be examined and a design that could feasibly address the needs of the **user's consent management on streaming data** will be proposed.
- The **components of the Microsoft Azure platform** will be **demonstrated**. for two distinct roles of the Shared Server and the Service Provider demonstrating runs from the pilot data set.

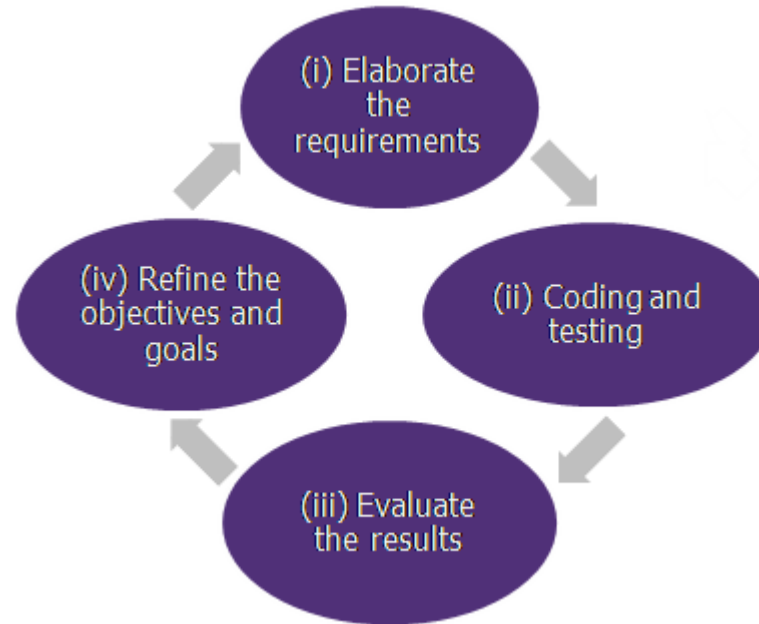


Structure of the Work (4/4)

Subtask 3. Implementation and rollout

Workshop 3: Reviewing the
progress
business

Agile methodology

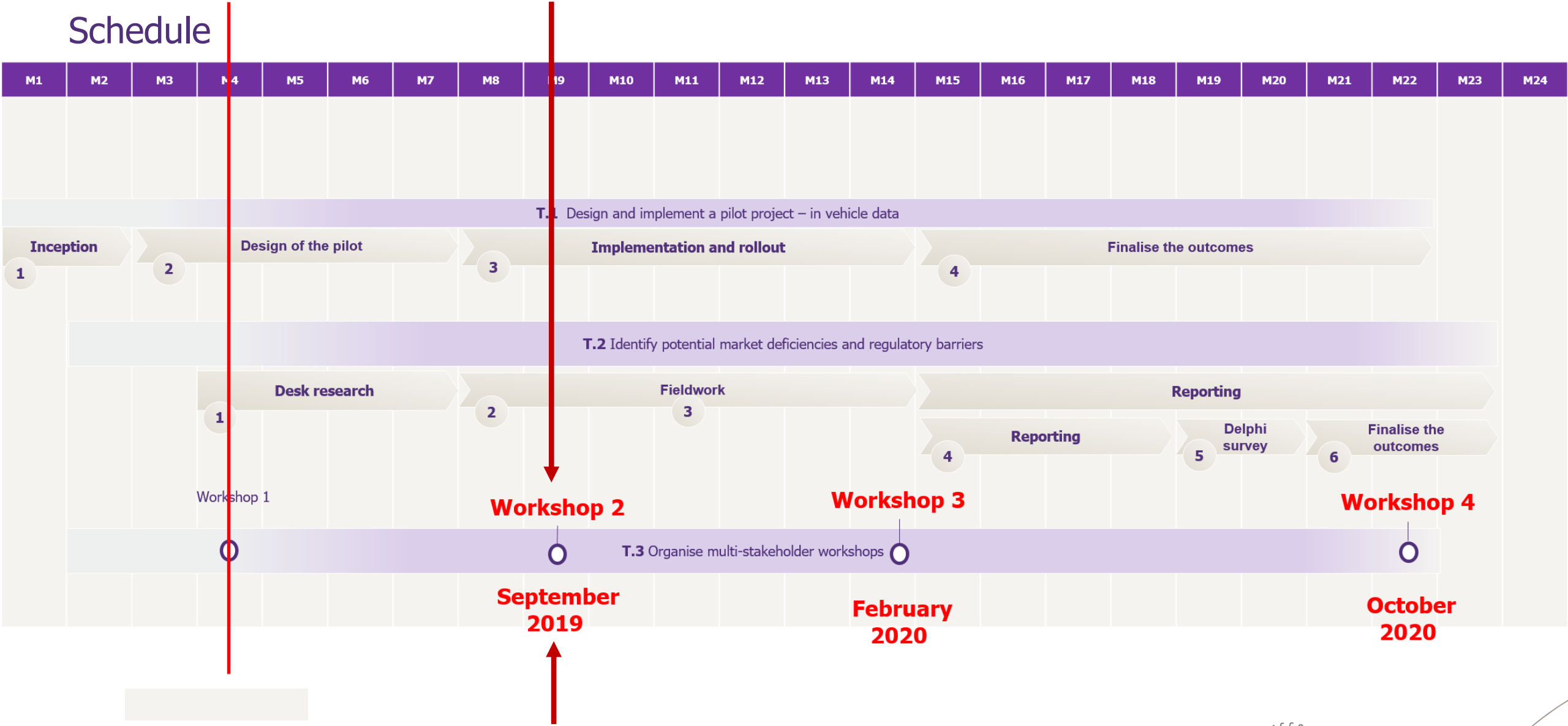


Subtask 4. Finalise the outcomes

Workshop 4: Validating the
results
results



Schedule



Final outcomes

Please take part **to the expert interview** to help us assess the barriers identified so far, and potentially **suggest policy and technological solutions** to overcome such obstacles

Report on potential market deficiencies and regulatory barriers on automated driving

Report containing recommendations to the EU and national policy makers and an action plan for the creation of shared EU-wide in-vehicle data

Report informing policy actions in the area of skills

Thank you

