



WAVESTONE

GRIMALDI STUDIO
LEGALE



3rd Workshop
Pilot on **Fair and equal data sharing for cooperative,
connected and automated mobility**
Progress update of the pilot on cooperative, connected and
automated mobility

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

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Online Workshop
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**Progress
update of the
pilot on
cooperative,
connected and
automated
mobility**



Items

Pilot Scope

Breakthrough technologies and good practices in our approach

Architecture – The Services and the main roles and the implementation so far

Structure of the Work

Schedule



Pilot Scope



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.



Opportunities for service providers

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



Defining the proper data set

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.



Breakthrough technologies and good practices **already implemented** 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.



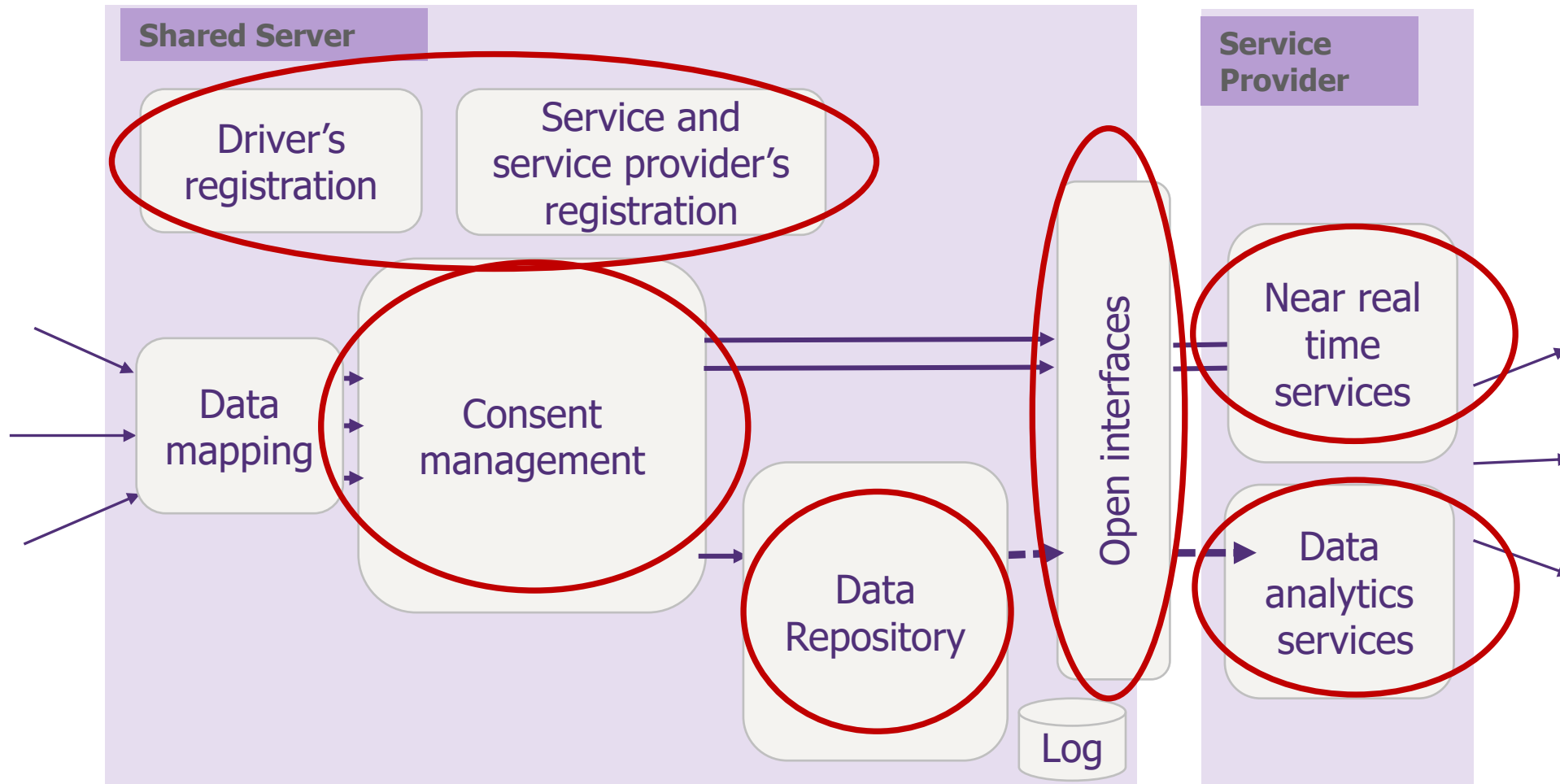
Open interfaces and semantic annotation

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.

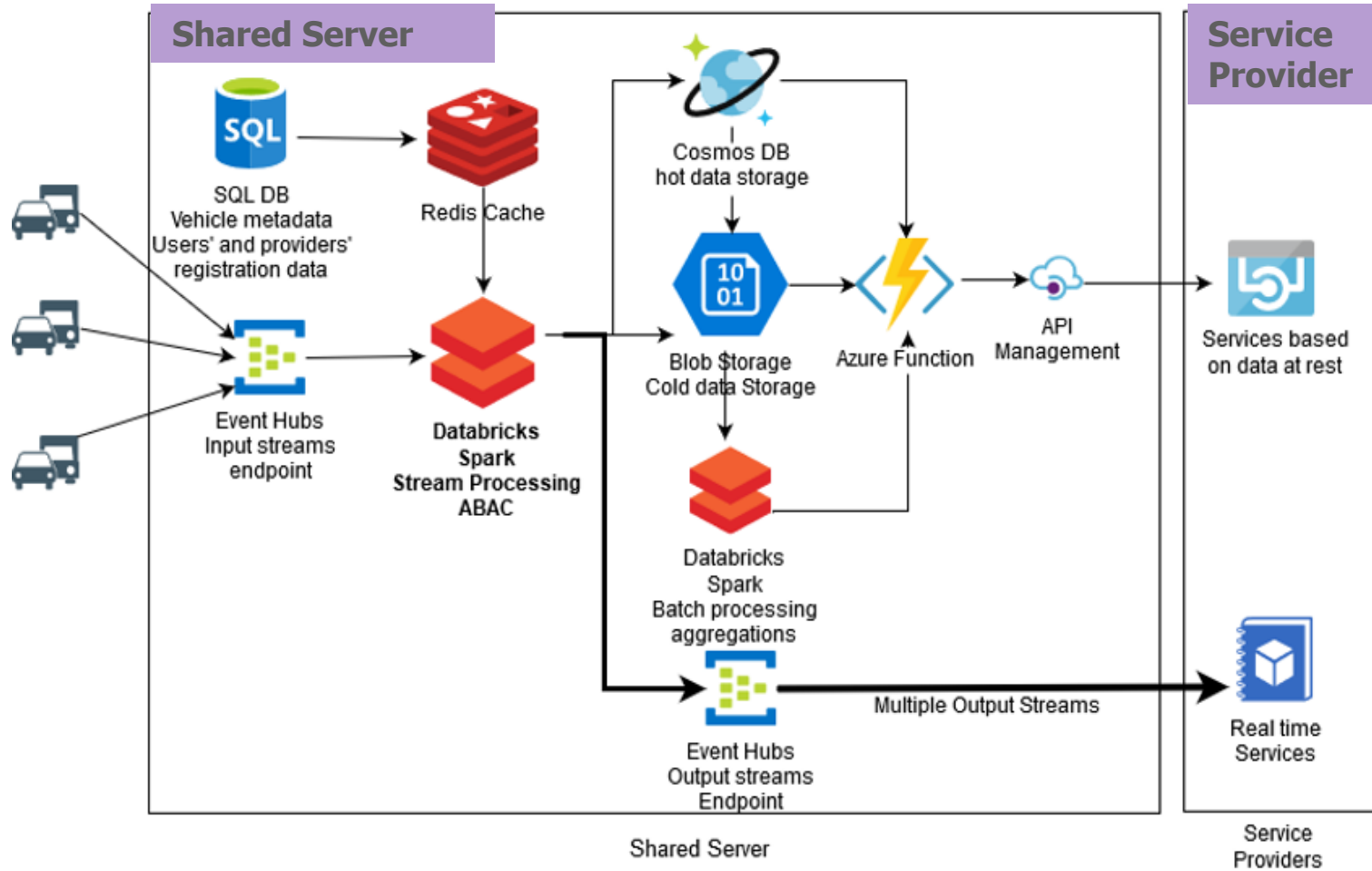
Shared Server is **more flexible** and **supports near-real-time services**



Architecture - The main roles and the **implementation** so far



The **implemented** architecture



Select applications among a variety of services or build your own service utilising the data of the Shared Server

Login

OR

Sign up

User Name:

email:

What are your intentions?

By registering to the Shared Server, I give my consent to the Shared Server access my data.

Submit

Disclaimer: Pilot applications provided through this project do not reflect the position of the European Commission



Most Important Services identified and **implemented**



A Shared Server solution could be a **faster way to empower SMEs**, as the access of the data is made easier

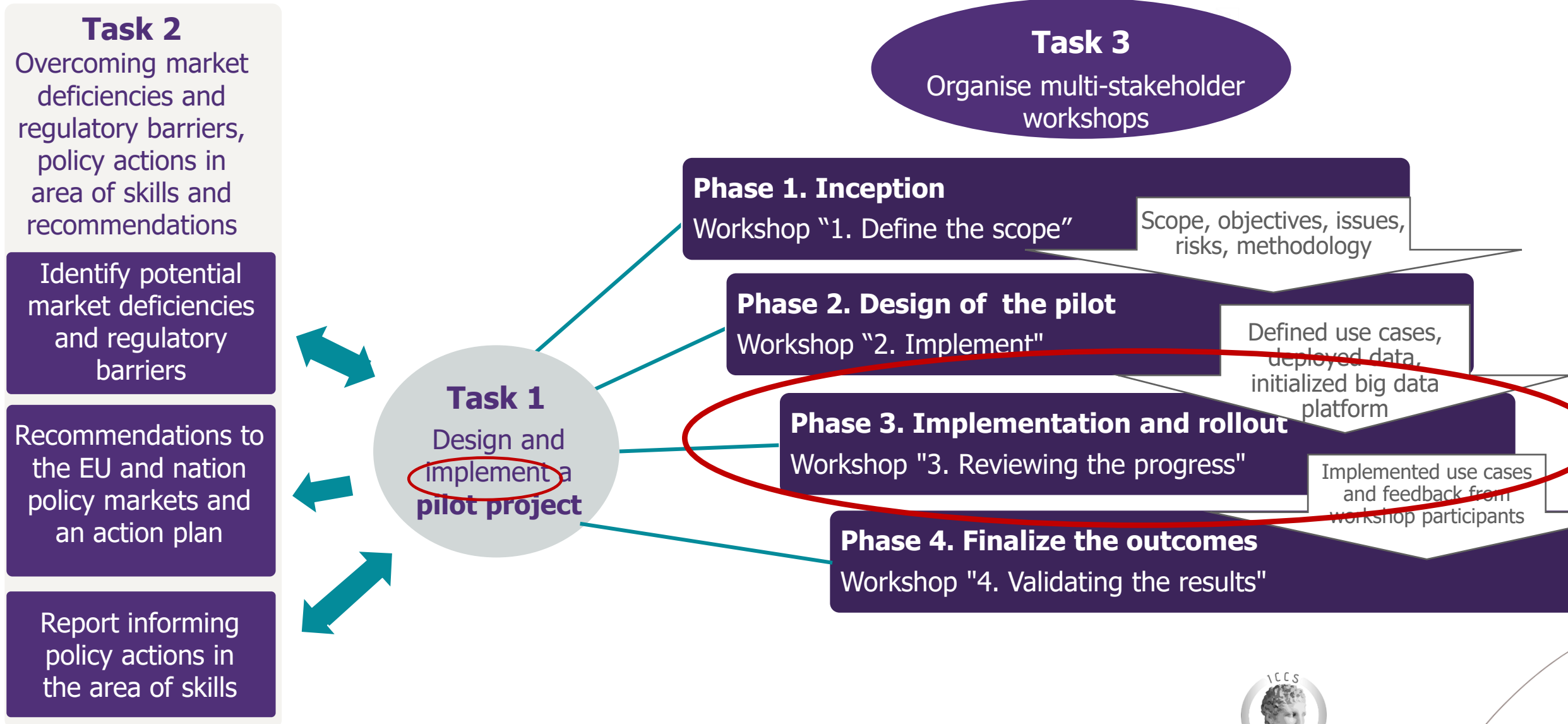


The **monetisation** of new services is needed to apply a **viable model for the Shared Server solution**

Safety emerges to be of **high importance**, and it goes beyond pure monetisation



Structure of the Work (1/5)



Structure of the Work (2/5)

Subtask 1. Inception

- **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.
- **A number of services was proposed** about i) Safety and emergency ii) Insurance services iii) Maintenance iv) Parking
- **Open issues on liability** (Contractual and extra-contractual), **data ownership** and the current EU legal framework as well as **competition barriers** were also analysed.

Workshop 1: Define the scope

Subtask 2. Design

- **Possible solutions** investigated 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, proposed an architecture that could sufficiently meet these needs.
- **Privacy issues** was examined and proposed a design that could feasibly address the needs of the **user’s consent management on streaming data**.
- The **components of the Microsoft Azure platform** and pilot data were **demonstrated**.

Workshop 2: “Implement”



Structure of the Work (3/5)

Subtask 3. Implementation and rollout

Following an iterative agile methodology

- We follow an iterative agile methodology, focusing more closely on the detail design as well as writing and testing code.
- We **start from the most well-defined** functionalities and in parallel we **resolve the riskiest cases** to cover the whole spectrum of the required features.
- **Hard requirements** set during the Initiation and Design phases are **improved and refined** via the development.
- Development is divided into short and transparent iterations **delivering incrementally the required functionality** and minimising the risk.
- Faults and misconceptions are clearly defined from the **refinements and new goals**.



Structure of the Work (4/5)

Subtask 3. Implementation and rollout

- **We completed three iterations of software development, until the third workshop. Every cycle took take eight weeks, consisting of the following four steps:**
 - / **Elaborate the requirements:** in this step the development team focuses on the requirements and finalises the detailed design.
 - / **Coding and testing:** the development team delivers applications, app. interfaces, queries, resulting datasets etc.
 - / **Evaluate the results:** the development team examines the results for consistency and completeness and evaluates them against the objectives and targets have been set up by the design phase.
 - / **Refine the objectives and goals:** keeping in mind the big picture, the project team acts proactively in refining the objectives of the development and setting higher goals.

Workshop 3: "Reviewing the progress"

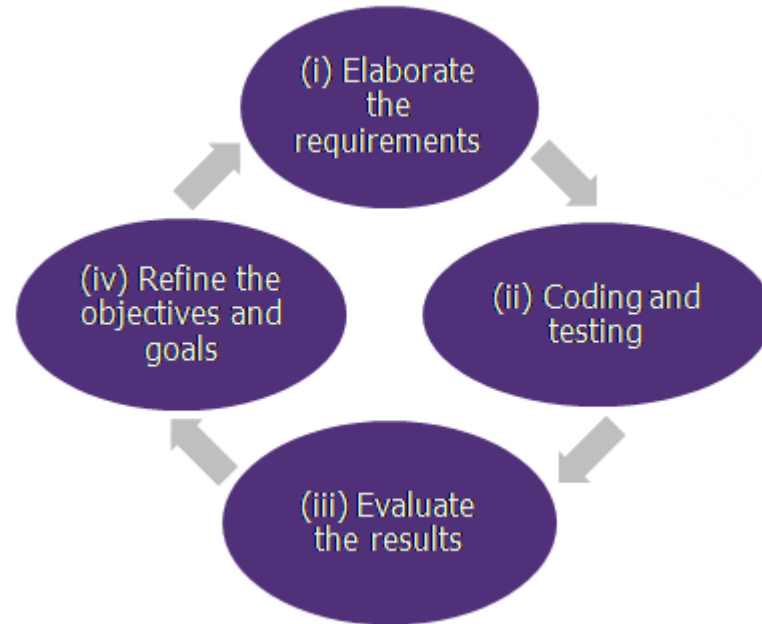


Structure of the Work (5/5)

Subtask 3. Implementation and rollout

Workshop 3: Reviewing the
progress
budget

Agile methodology

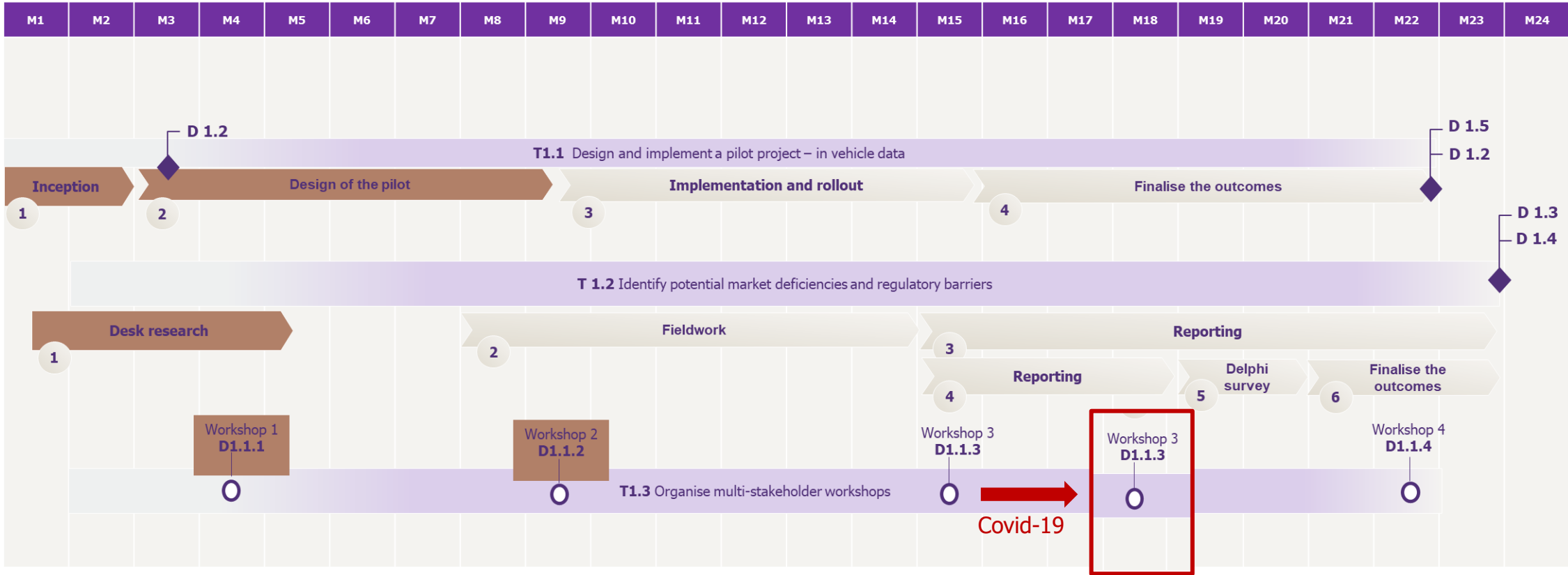


Subtask 4. Finalise the outcomes

Workshop 4: Validating the
results
budget



Schedule



Thank you

