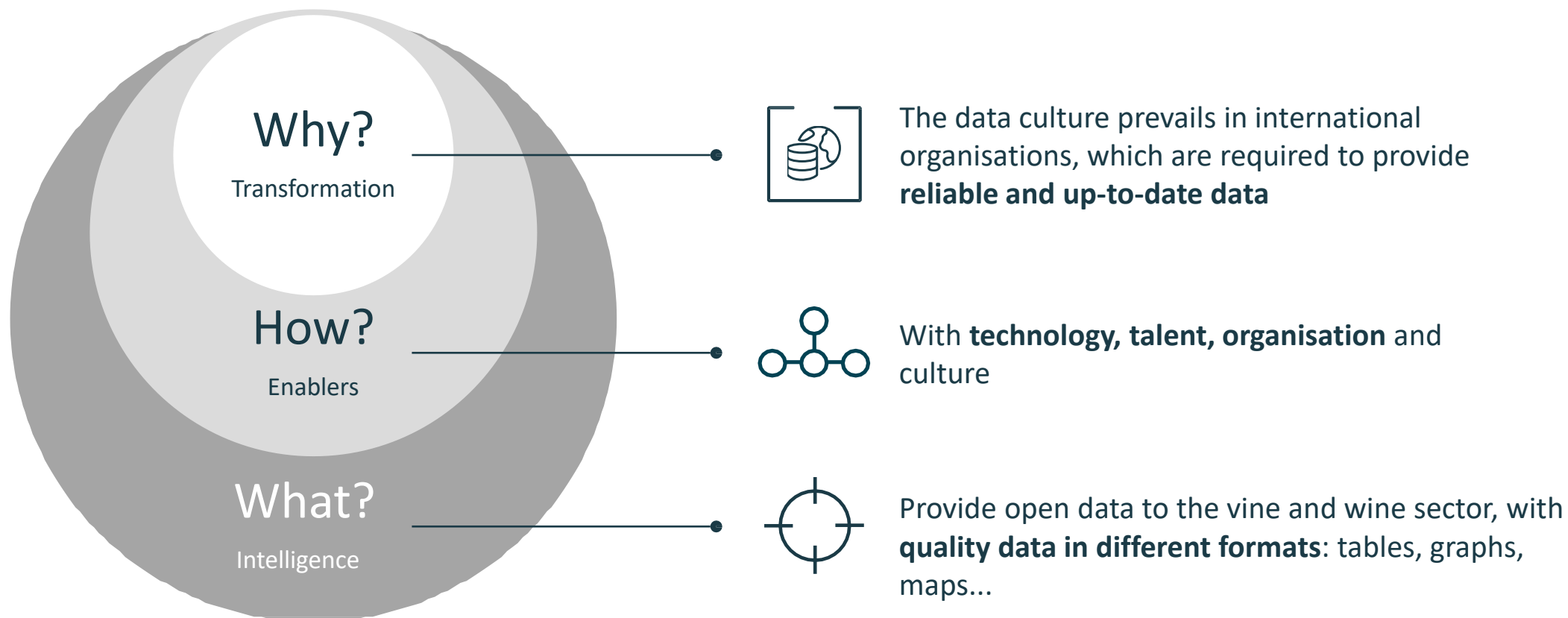




In the current context, data has become one of the main assets of leading IGOs, who are rapidly evolving their analytical capabilities

Offer valuable service presenting statistics on the sector based on quality and reliable data





The main objective of the data service is to improve the data gathering by evolving questionnaires towards a digital model to ease data entry and ensure consistency

At present, most publications rely heavily on MS Excel questionnaires, which experts have to update manually. The current process has some limitations, as it...

- ...requires a lot of time from the experts;
- ...does not facilitate the mitigation of manual errors (numerical fields filled with texts, numerical data that doesn't add up, data that doesn't match with their historical series...); and
- ...requires a subsequent harmonisation process to achieve a consistent output.

The objective is to progressively replace MS Excel with a data entry solution capable of securely exchanging and storing such information, with a common protocol of data identification, (periodicity, units, currency...) issuing warnings to ensure consistency with past data, ensuring that data is entered in the required format (text, number...)

The solution allows two types of data entry. This way it will be able to coexist with the electronic questionnaires and Excel forms during the transition

- Forms include predefined field types such as drop list, checks, open field, labels or with custom rules.
- Excel (Templates): Excel mass uploads. The update will include defined checks to ensure the quality of the data updated, informing about any errors with several options (i.e. reject the whole file or part of it plus an error log to facilitate remediation).

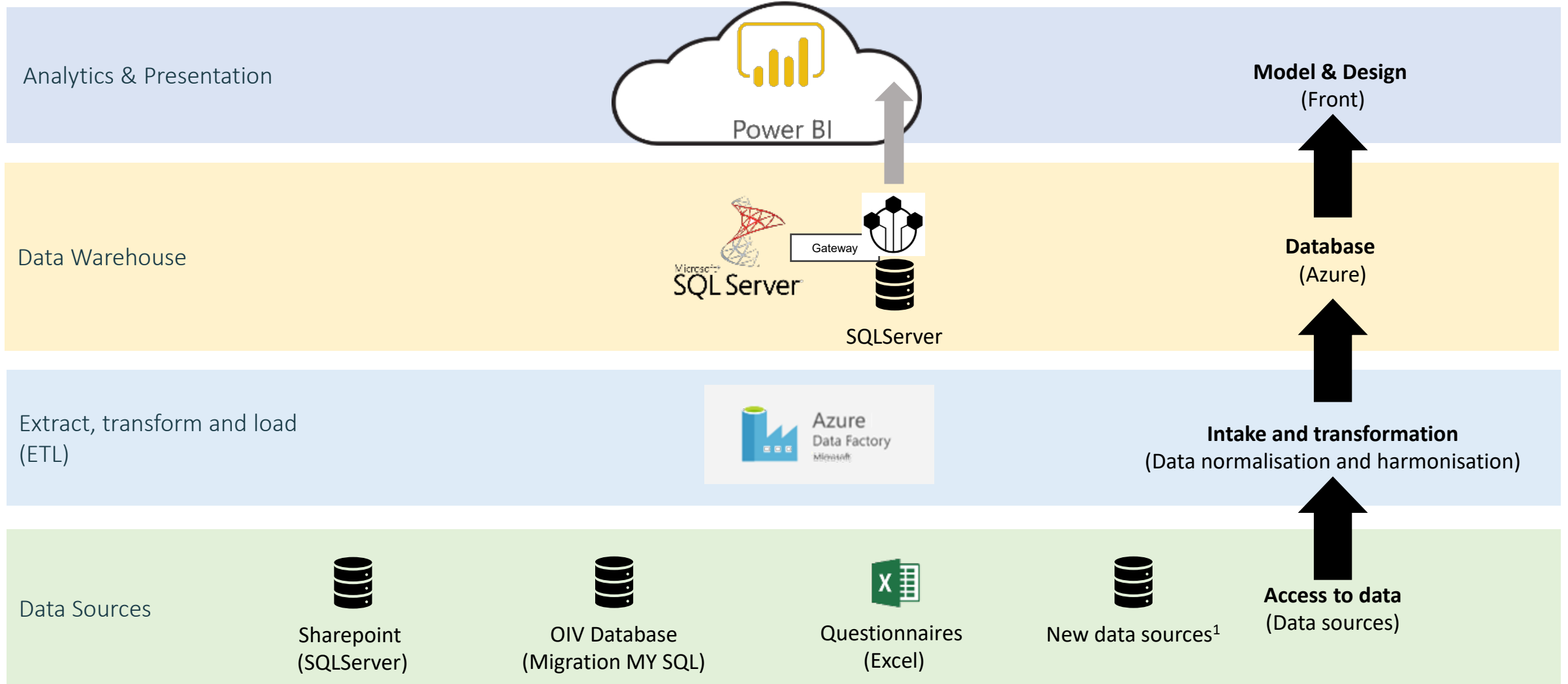
Year	2015	2016	2017	2018	2019
...
...



With this scalable solution, the OIV Secretariat and Experts will be able to save time and resources to collect additional data in the future



A standard architecture with the flexibility to evolve data analysis and data management capabilities to make the OIV a go-to data source





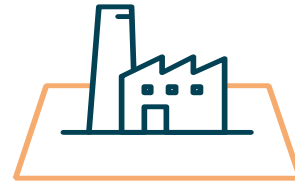
Data management type structure to maximise data value

Proposed architecture layers



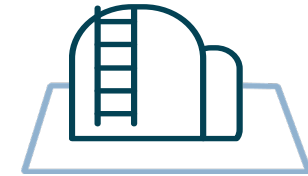
Data Sources

- Transition to a more efficient data gathering process without Excel questionnaires, through the implementation of **Microsoft Sharepoint data entry** and intake processes to upload data to the data warehouse.
- Initial estimated development of **11 advanced entry forms in Sharepoint** (4 statistics + 6 for other areas) with visibility of the **historical data and normalisation rules** —to ultimately improve data quality and automate data treatment. **Validation of the data entered by OIV staff**
- Mass data loading functionality from Excel (for the data entry of historical and other sources).



Data Factory (ETL)

- Development of the processes to **achieve the transformation required for properly storing and transferring the information** from the data sources to the data warehouse.
- The proposed solution is a **scalable and market-standard architecture**, allowing the expansion of information in different formats.

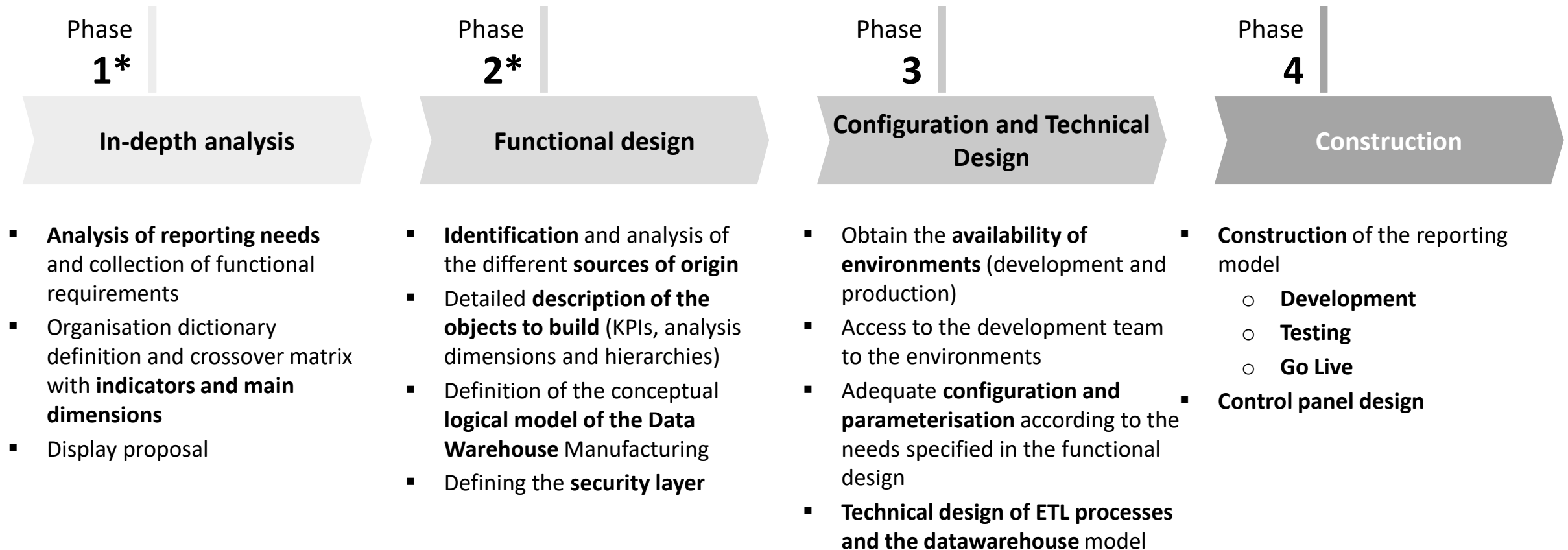


Data Warehouse

- An **information repository** (data warehouse) will be built to **validate and consolidate the information** entered from the different sources.
- Support for the configuration of the environment required for construction of the **Microsoft SQL Server data warehouse**.
- The proposed solution is a **market-standard architecture** that has been designed to **adapt to the OIV's long-term needs**.

Improve data collection, treatment and normalisation capabilities to focus on the development of the database as opposed to working via manual, repetitive and low-value tasks

Configuration, construction and change management will be addressed once the analysis and functional design phases are completed



(*) For phases 1 and 2, the OIV's collaboration is required and will be necessary before phases 3 and 4 can be launched



Inspired by the open data culture, one of the top priorities for the OIV is to provide free, timely, accessible and accurate data on the wine and vine sector



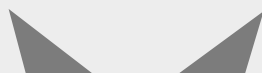
Data Entry
Sharepoint



Data Warehouse
SQL Server



Data analysis
Power BI

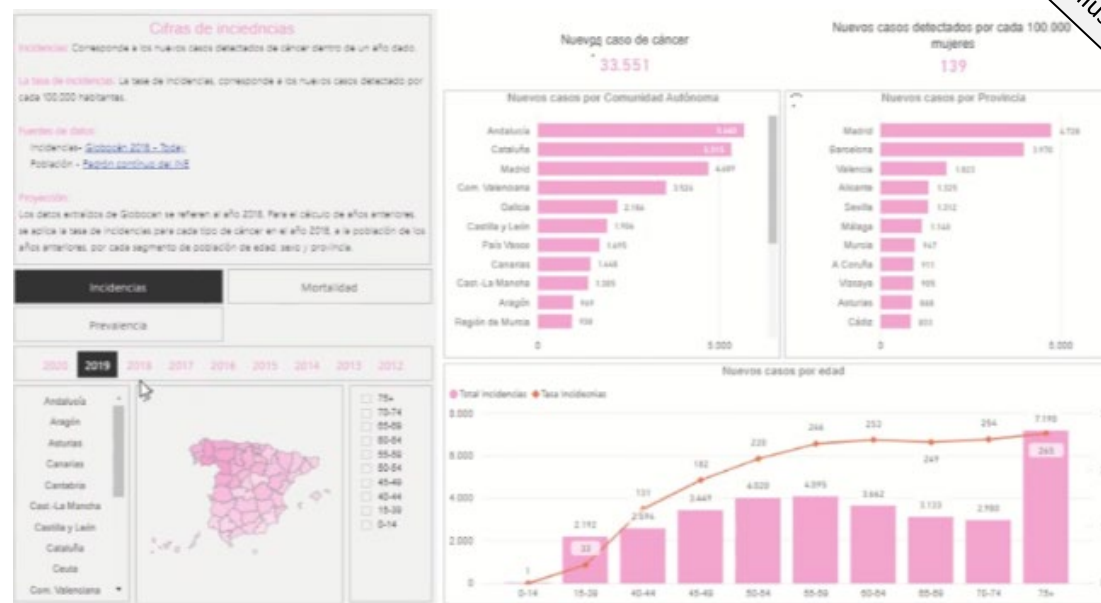


**General secretariat users
and selected experts¹**
OIV Secretariat & Selected
Experts



Website users
OIV website

- Analysis to extract **more value from data**
- **Attractive and intuitive reports** via Power BI for
 - General secretariat users¹
 - OIV website users through iFrame (HTML reports)



Illustrative

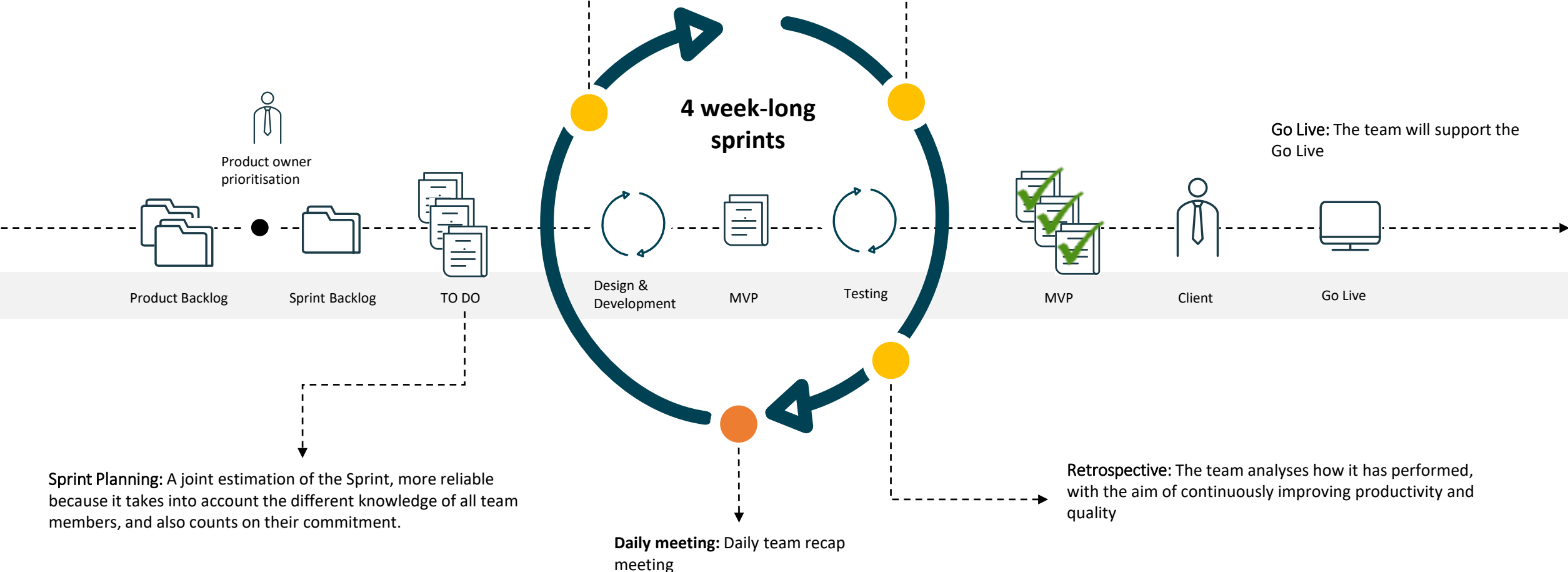
1. Power BI Pro or Premium license required



An agile methodology will be implemented during the development of the data visualisation initiative, delivering 3-4 reports each month (10 reports in 3 months)

3 weeks - Design and Construction: Execution of the tasks that have been planned in the previous activity. Each iteration provides an enhancement of the potentially deliverable product.

1 week - Testing : Testing of the developments carried out during Sprint1



Sprint Planning: A joint estimation of the Sprint, more reliable because it takes into account the different knowledge of all team members, and also counts on their commitment.

Daily meeting: Daily team recap meeting

Retrospective: The team analyses how it has performed, with the aim of continuously improving productivity and quality