

Data Architecture Modernization: Assessment

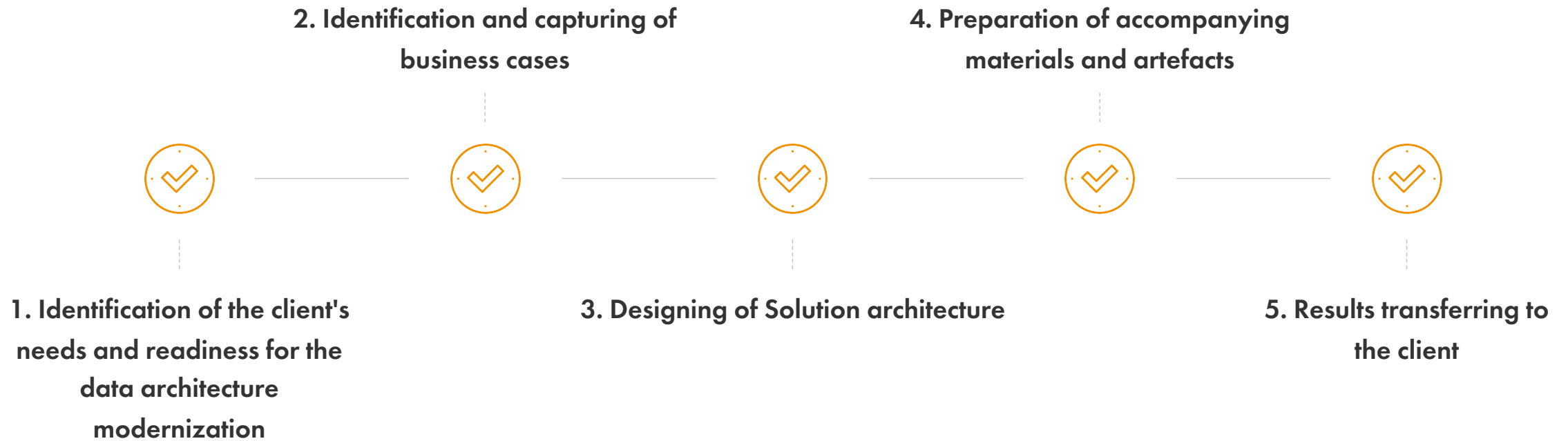
DataArt helps clients outperform competitors by building modern data analytics architectures, by helping to evolve an insight-driven organization through data management and Agile BI systems and practices, and by enabling AI, machine learning and data science.



The goals of the assessment are to:

- Identify the client's needs in the data architecture modernization and ways to achieve it.
- Capture business Data & Analytics use cases for the solution.
- Assess readiness for the modernization on the client side.
- Offer the solution architecture for the modernization.
- Prepare and transfer artefacts that comprehensively describe the developed architecture:
 - proposals for the process and organizational structure modification (if necessary);
 - diagrams, charts, graphs, matrices, policies etc.

Plan



Assessment Phase (2 weeks)

Activities

- Identify main stakeholders, project/business goals, time and budget constraints.
- Work with team leads on client side to focus on current state analysis.
- Gather requirements for data security, retention, compliance, and geo location restrictions.
- Capture and document business processes.

Artefacts

- Catalogs: stakeholders, goals, constraints etc.
- "As is" state diagram.
- Requirements to processes, data specifics and flows.

Solution Architecture Phase (4 weeks)



Activities

- Iteratively come up with final solution state for the project implementation.
- Identify skills and knowledge gaps in client's team and plan a training / staffing session.
- Develop a project transition plan aligned with uninterrupted business processes, current state, and desired architecture.
- Perform security and compliance assessment of the plan and apply updates accordingly.
- Organize team to run project transition and iteratively deliver transition according to the plan.

Artefacts

- Solution diagram: detailed option of generic diagram (according to business architecture).
- Data architecture (according to business architecture):
 - Data conceptual diagram (with markers for sensitive data);
 - Data modeling(input, transition and output data models);
 - Data flow and Data dissemination diagrams;
 - Data security diagram;
 - Data sync and access policies.
- POC plan description: technical and organizational activities.
- Infrastructure plan description: capabilities and costs (assigned to date).



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