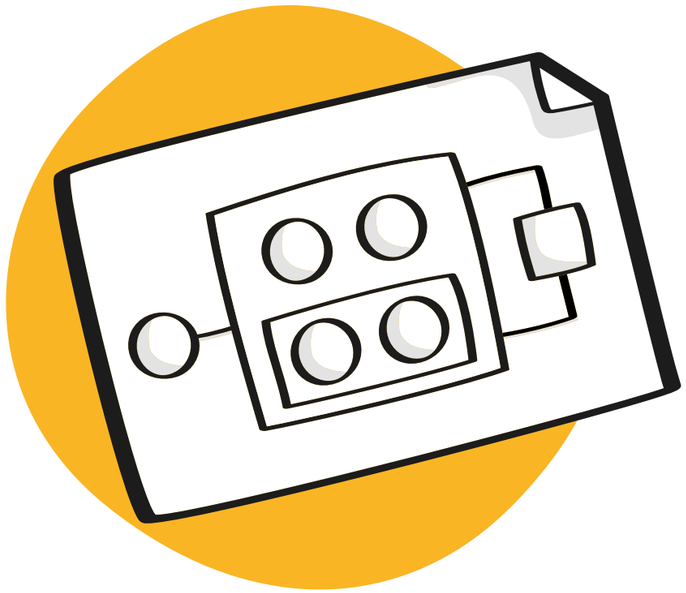

DESIGN PHASE / Solo Activity

Solution Realization Diagram

A technical description of the aspired solution via Solution Building Blocks.

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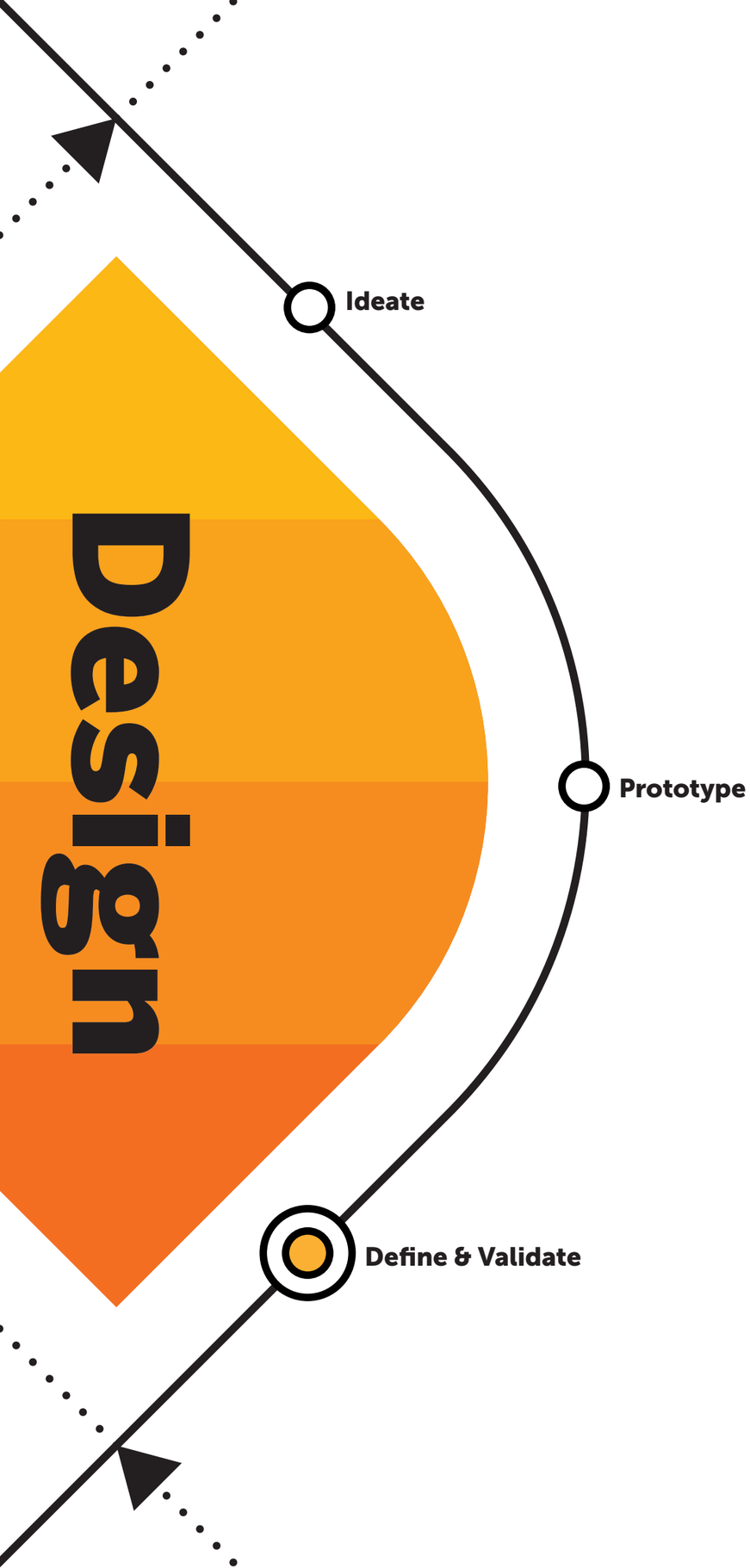

Why to create a Solution Realization Diagram?

The Solution Realization Diagram describes your target architecture by breaking the aspired solution into functional components based on solution building blocks (SBB).

The purpose of the Solution Realization Diagram is to add technical details so that it can be used for the implementation phase of the aspired solution.

Solution Building Blocks are product or vendor-aware and can be either developed or procured. With the Solution Building Blocks you outline which products, like cloud services, are used, or need to be developed, in order to realize and implement the aspired solution/ its architecture building blocks.

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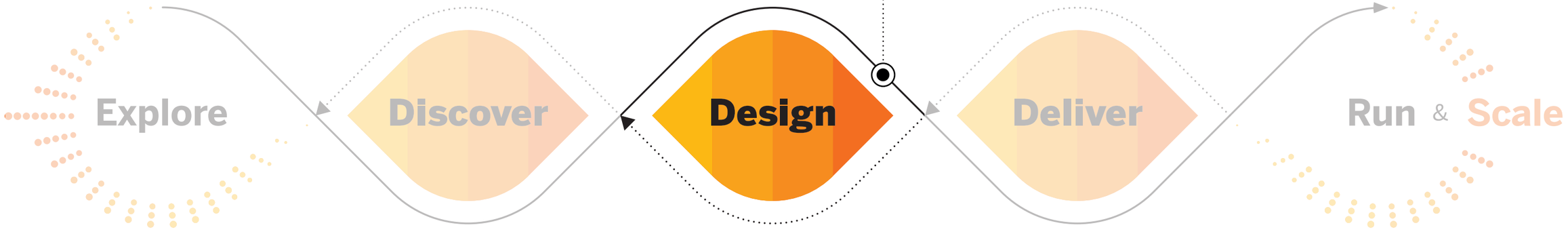
When to create a
Solution Realization Diagram?

The Solution Realization Diagram is created during the Design phase after the Solution Concept Diagram.

Solution Concept Diagram < **Solution Realization Diagram** > Architectural Decisions List



Explore innovation opportunities and tie them to strategic business goals.

Discover and gain deep understanding of customers' and their end-users' needs.

Design and create a prototype of the solution and define the enterprise architecture components.

Deliver the business and technical solutions for productive use in the enterprise architecture landscape.

Run and Scale the solution and deploy across the company.

Lear more about SAP's Human-Centered Approach to Innovation: https://experience.sap.com/designservices/approach

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How to create a
Solution Realization Diagram?

Duration
30 - 120 Minutes

Participation
1 - 3 People

Roles
Architects

Use input from

- **Baseline Solution Architechture**
- **Solution Concept Diagram**
- **SAP Discovery Center (vendor specific information sources)**
- **SAP API Business Hub**

Steps

1. Identify Solution Building Blocks that realize the previously identified Architecture Building Blocks (ABBs). Map the Architecture Building Blocks of the Solution Concept to one ore more Solution Building Blocks. Sources for Solution Building Blocks are the Baseline Solution Architecture (perform a fit-gap-analysis) and vendor specific information sources like the SAP Discovery Center for SAP BTP Solution Building Blocks (SBBs).

2. Outline the dependencies between the identified SBBs (functional dependency in terms of request-response and/ or information flow)

3. Add users and roles currently interacting with the SBBs.

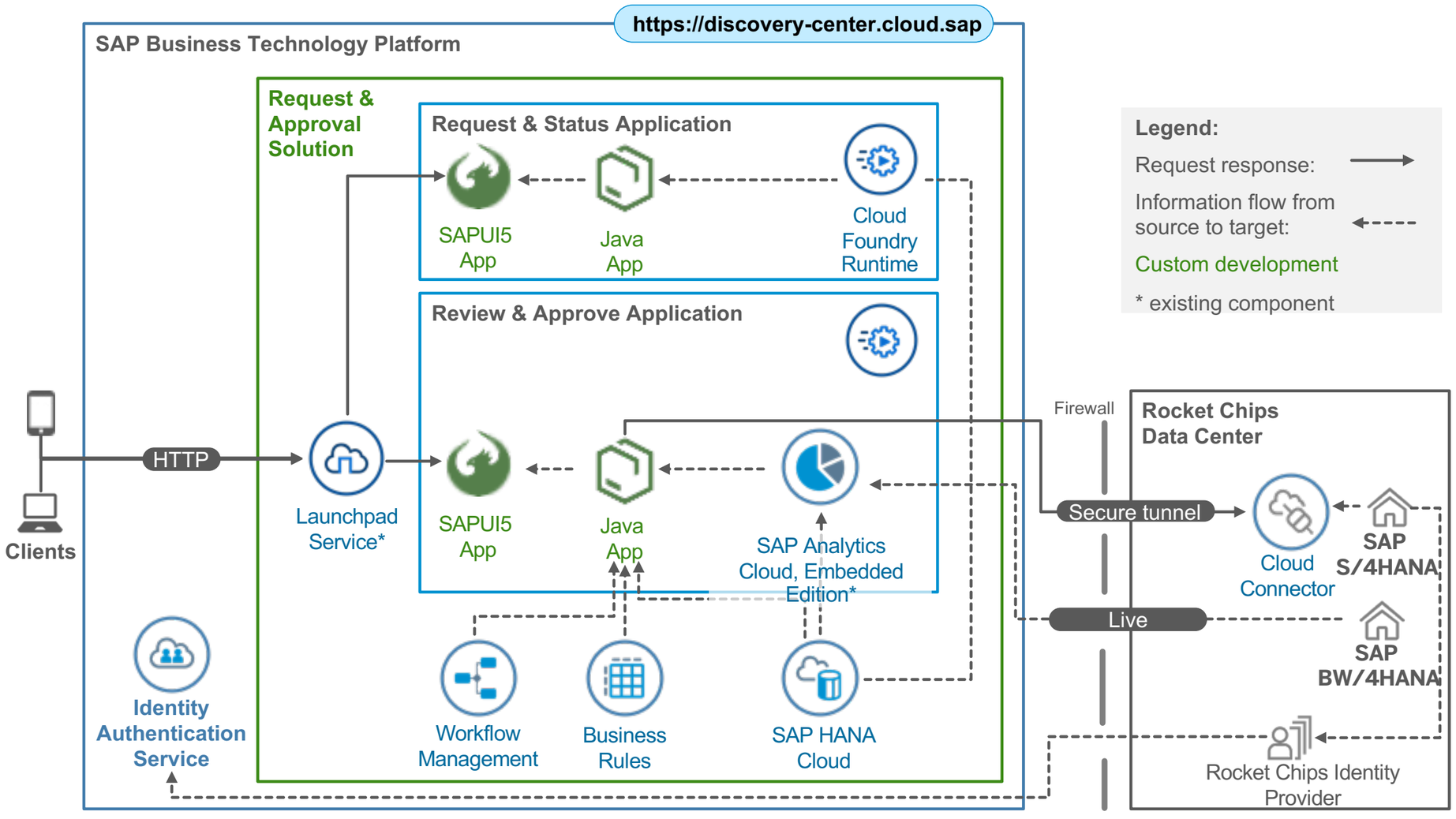
4. Check the Solution Realization Diagram for completeness, by verifying that each ABB from the Solution Concept is addressed with SBBs.

Expert Tips

There are two sources of Solution Building Blocks:
(1) Based on the Baseline Solution Architecture you perform a Fit-Gap-Analysis, identifying Solution Building Blocks that are already in place and can either be completely or partly re-used in your Solution Realization.
(2) SAP Business Technology Platform services (e.g., via SAP Discovery Center).

The mapping of Solution Building Blocks to Architecture Building Blocks depends on the experience and knowledge in the team (experience-based mapping).
Publicly available information/ documentation can be consulted about the Solution Building Blocks for doing the mapping. Reference architectures solving a similar problem or addressing parts of your request of architecture work are also good sources for doing the mapping.
Use BTP service icons to draw the diagram.

Example
Solution Realization Diagram



Get started with the included Power Point Template