Public API

Public API Liechtenstein

Unlocking the digital potential of an entire country

**Phase 1:
Demand analysis
Private Sector and
Public Sector**

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Needs analysis as a starting point: a brief overview
Qualitative method in the form of stakeholder interviews

>Question 2 and 3 triggers ideas toward a „Digital Ecosystem Liechtenstein"

- **2 Questions:**
  - What are the challenges facing your organisation in relation to these three topics?
  - In which areas do you see potential for cooperation in Liechtenstein?
- **Results**
  - **Smallness of the country and direct access to decision makers leads to overall picture**

Practical challenges SME and Public Sector

Missing link between SME and Public Sector

Ideas and solutions for missing services

Unlock the digital potential of Liechtenstein

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Public API – Extension of the Scope

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User Story & Description

As SME or Public Sector Lead, I want to have a public Application Programming Interface (API) so that I can scale my digital solutions to be easily connected and made available in various company IT environments.

- A) Public Application Programming Interface (API)

Lay the foundation for a MPV!

Concept Digital Ecosystem Liechtenstein

- Public API questions are not the priority topics to solve

- In the first step an overall picture is needed

- Hot to define a „Digital Ecosystem Liechtenstein"

- Influence of ecosystem-approach towards Public API

- How and in which steps could digihub.li help reaching the goal of a „Digital Ecosystem for Liechtenstein"?

- What is a realistic scenario reaching a **MPV** on the existing basis and within the known limits and circumstances?

Phase 2:
Building a Digital Ecosystem for Liechtenstein
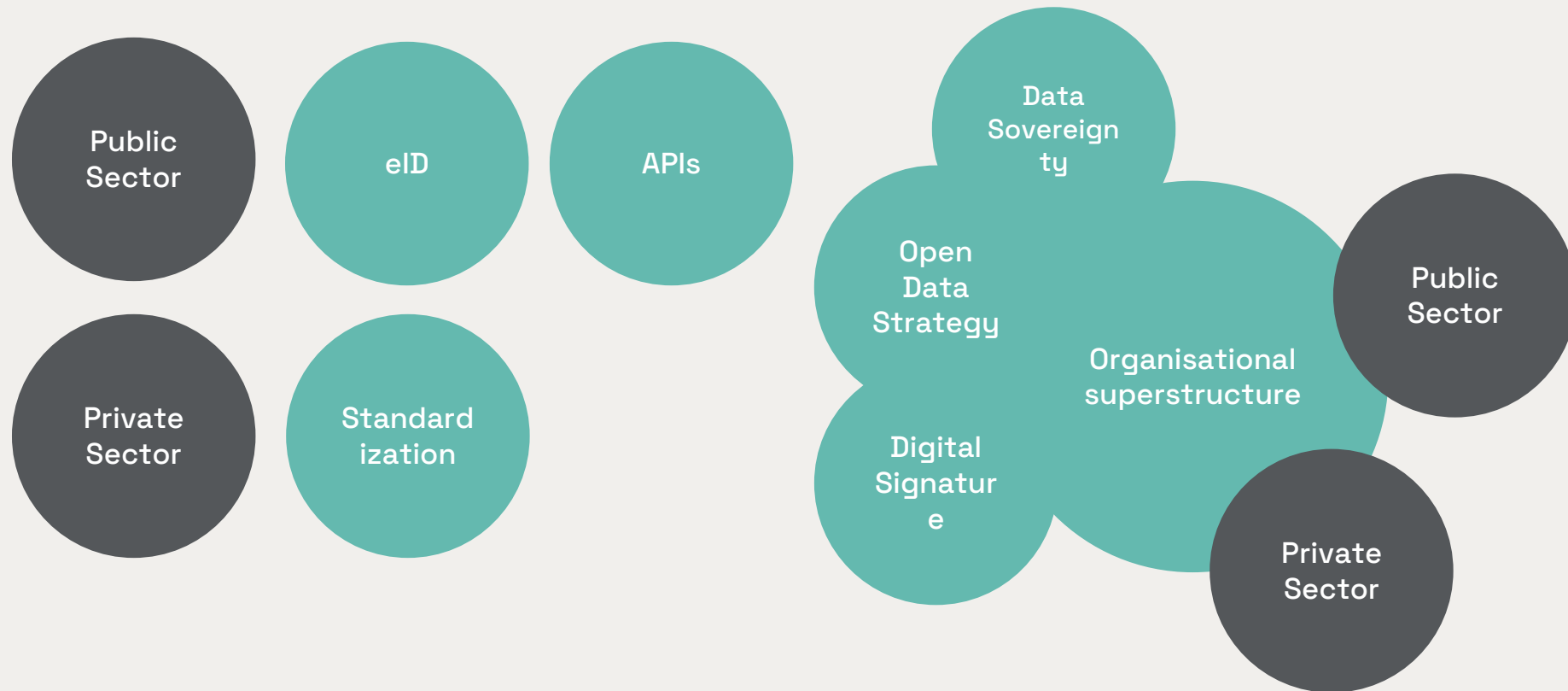
Building a Digital Ecosystem for Liechtenstein

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1 Needs analysis SME and PSO

2 Digihub.li - Innovation Hub

3 Innovation Framework / Ecosystem Liechtenstein

4 Expert Advise

5 Digital infrastructure and strategies (Public Sector)

6 Digital infrastructure and strategies (Private Sector

7 Gaps

8 Ecosystem

Building a Digital Ecosystem for Liechtenstein
GAPs

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Gaps

Identified gaps and important topics

Public Sector

eID

APIs

Private Sector

Standardization

Data Sovereignty

Open Data Strategy

Organisational superstructure

Public Sector

Digital Signature

Private Sector

Building a Digital Ecosystem for Liechtenstein
Ecosystem

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Ecosystem

Soles Proprietorship

SME

Public Sector

Skills

Values

Purpose

Contribution

Business models

Impact   KPIs

Information

Goals

Decisions

Investors

Employees

Multi-Stakeholder

Social

Ecological

Economic
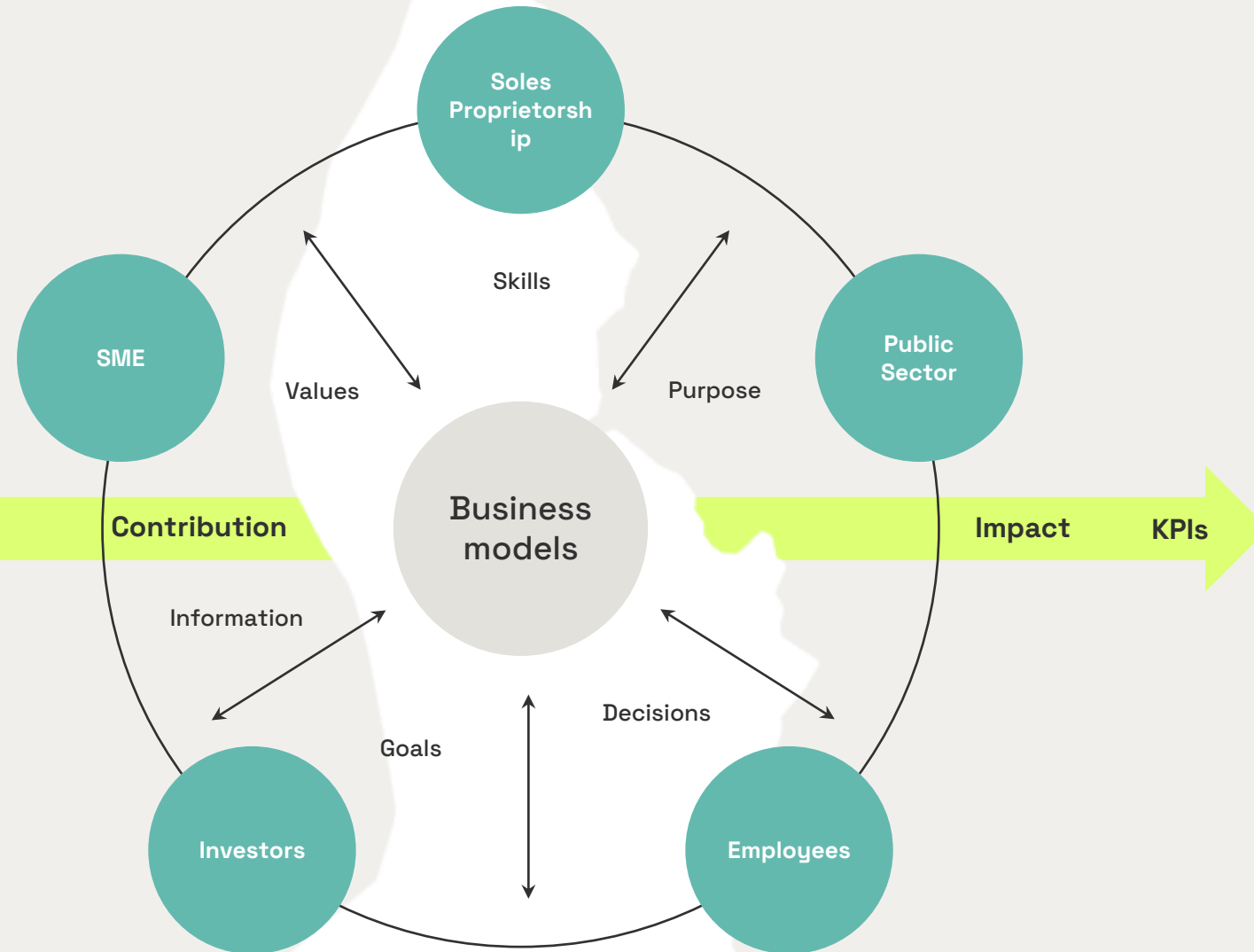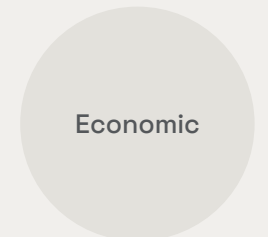
Ecosystem Vision and Potentials
SME

Multi-Stakeholder

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Vision and Potentials for SME

New digital services and products

Cost-effective common digital infra-structure

Cross-sector services for customers

New Ecosystem Business Models

Cost-effective digitali-zation

Artificial Intelligence and Blockchain

Sector-wide solutions

Scalable micro-process optimization

Data sovereignty

Ecosystem Vision and Potentials
Liechtenstein

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Vision and Potentials for Liechtenstein

Inter-national hotspot for digital business

Providing core functions for digital business

Secure Data Location

Leading country in digitalization

Cost-effective digitali-zation of SME

Network effects national and inter-national
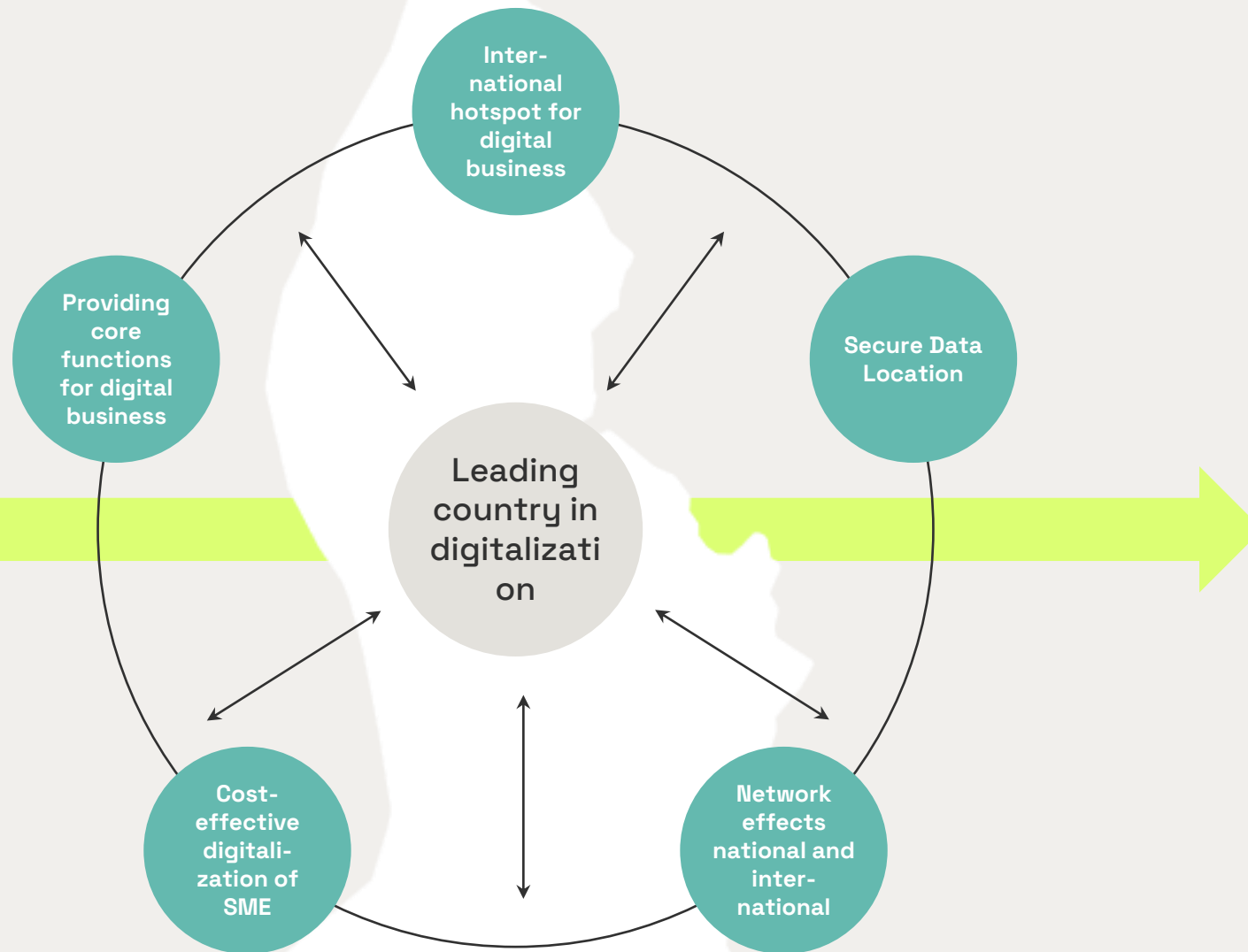
Multi-Stakeholder

Sector-wide solutions

Scalable micro-process optimization

Unlocking Potencial of BC, AI and Data

Phase 3 – Public API

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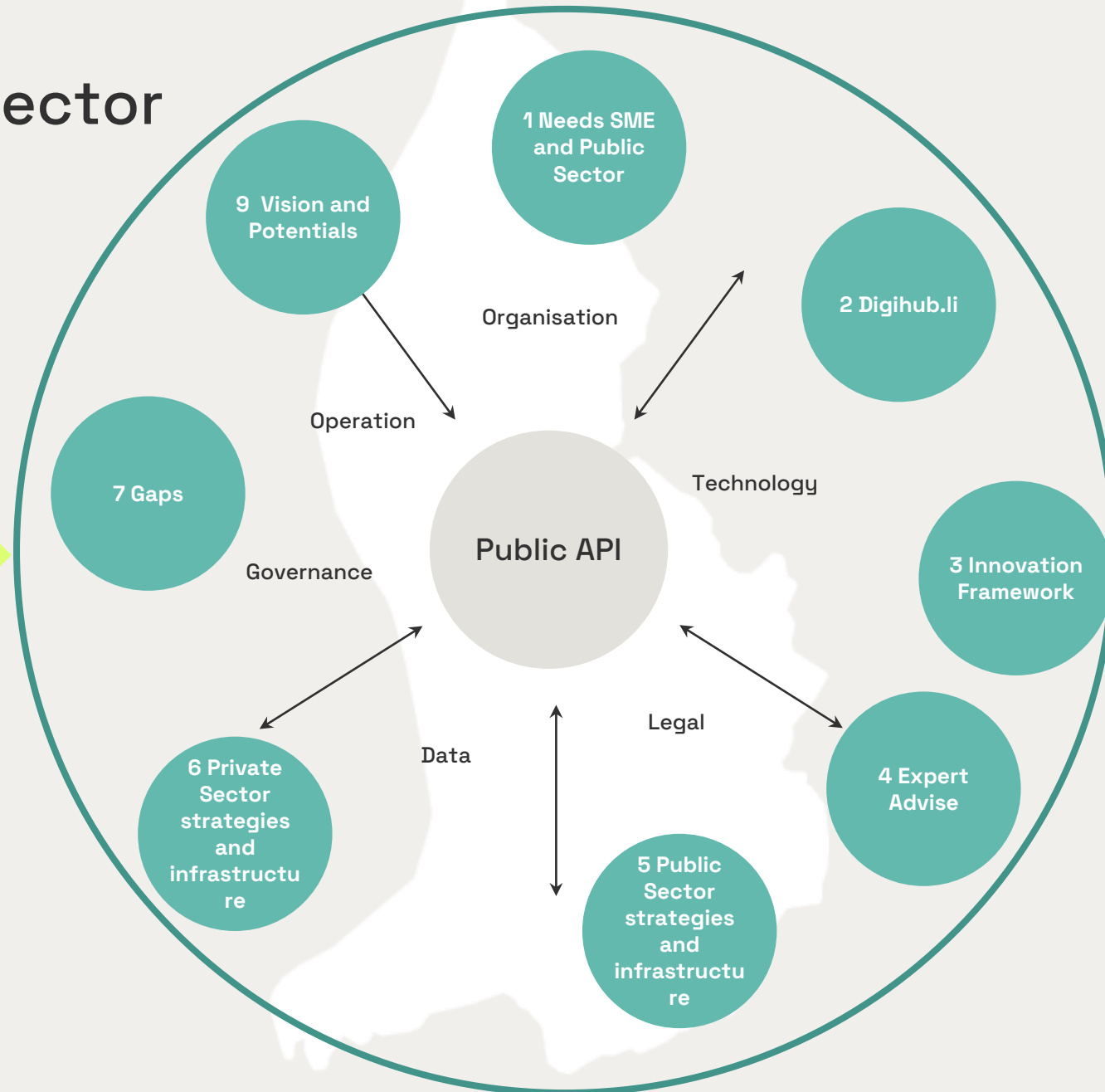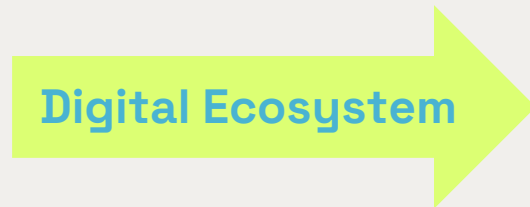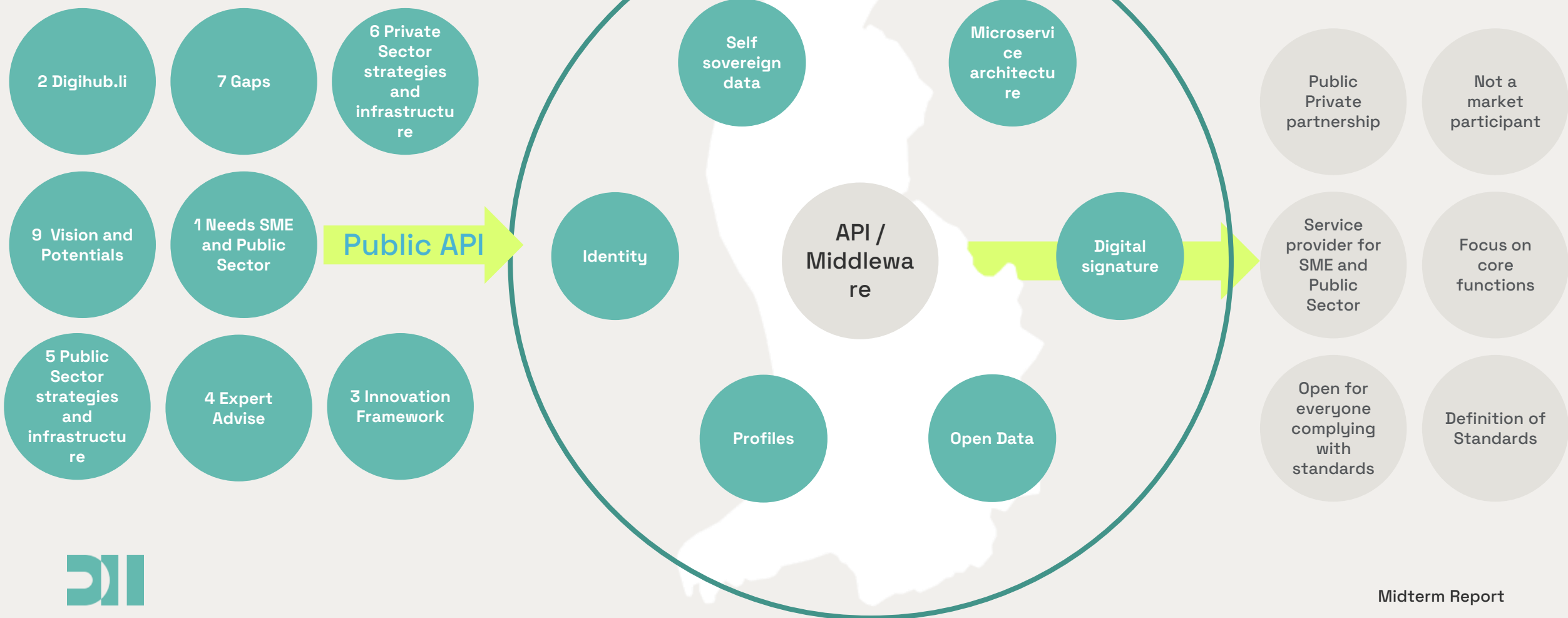
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Public API
SME and Public Sector in Liechtenstein

Digital Ecosystem

1 Needs SME and Public Sector

9 Vision and Potentials

2 Digihub.li

7 Gaps

Organisation

Operation

Technology

Public API

Governance

3 Innovation Framework

Data

Legal

6 Private Sector strategies and infrastructure

5 Public Sector strategies and infrastructure

4 Expert Advise

Public API
SME and Public Sector in Liechtenstein

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4 Expert Advise

3 Innovation Framework

Self sovereign data

Microservice architecture

Identity

API / Middleware

Digital signature

Profiles

Open Data

Public Private partnership

Not a market participant

Service provider for SME and Public Sector

Focus on core functions

Open for everyone complying with standards

Definition of Standards

Midterm Report

The way could lead via the courage to trial and error.

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Open Innovation

- Needs analysis
- Vision, potentials and added value

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Design

- Proof of concept
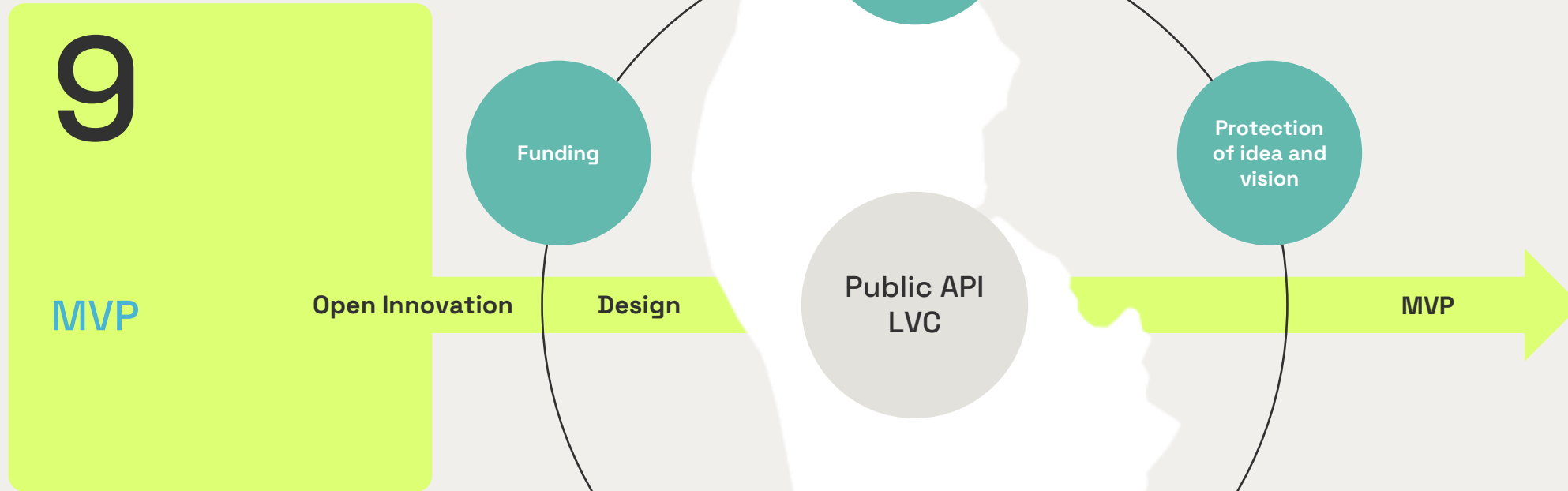- Expert Advice
- Ecosystem definition

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MVP

General Definition Digital Ecosystem

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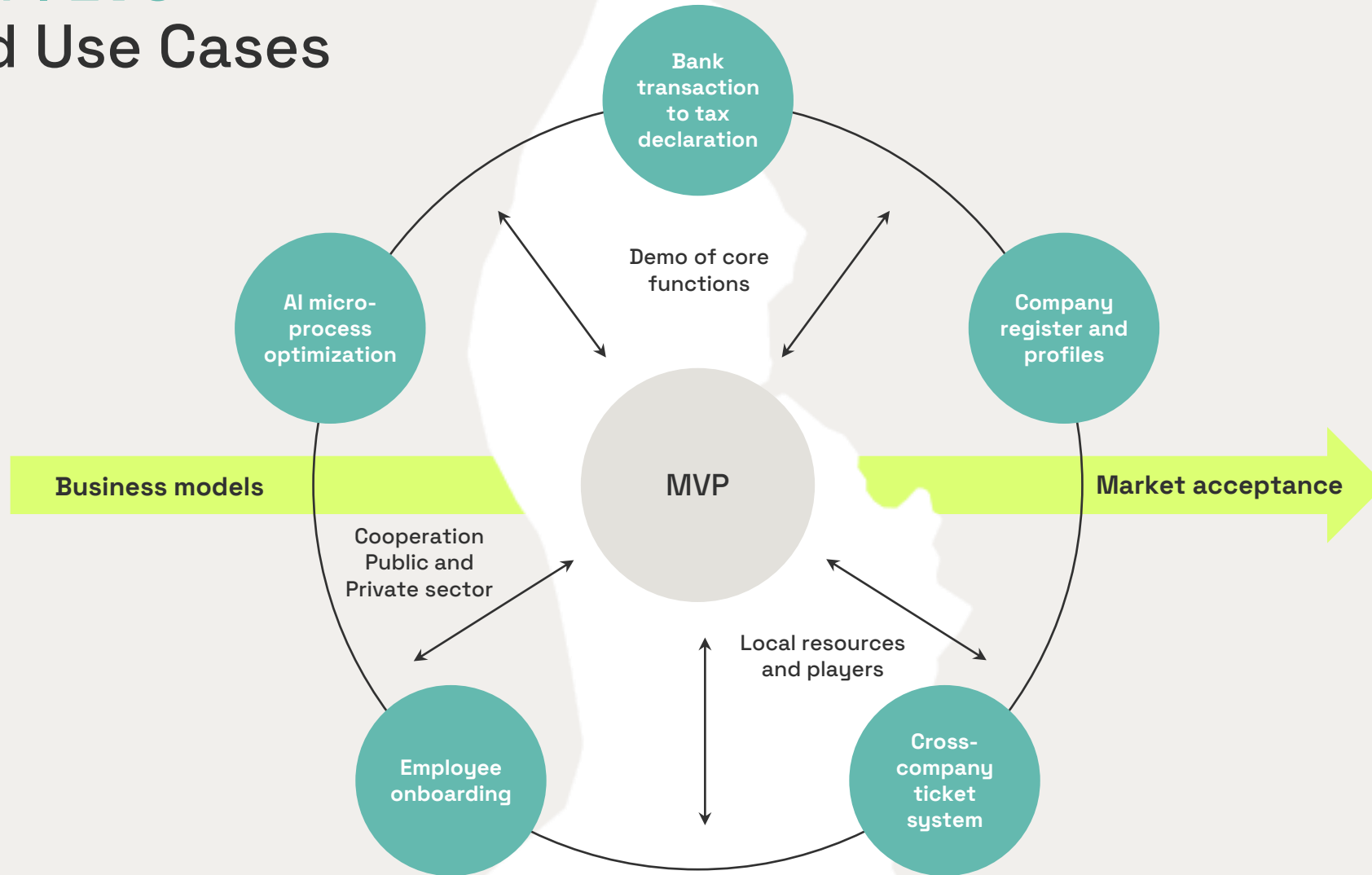
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General
Definition Digital
Ecosystem

Definition Fraunhofer Institute, Germany (1/2)

"A Digital Ecosystem is a **socio-technical system** in which **companies and people cooperate** that are **independent** but **expect to gain mutual benefits** from participating. A Digital Ecosystem has a **digital platform** at its center that **supports this cooperation** particularly well via **ecosystem services**.

A Digital Ecosystem

- addresses **actual needs of potential consumers,**

- delivers **added value** that was previously unattainably without the ecosystem service,

- is **attractive to both providers and consumers** of services, and

- provides **added values for all partners** involved in the ecosystem service."

> The overall benefit of a Digital Ecosystem thus results from the combination of the digital brokering platform and a large set of partners who participate in the Digital Ecosystem for mutual benefit and whose interactions via the platform lead to network effects.
> Frauenhofer Institute, Germany

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