



Rialtas na hÉireann
Government of Ireland

Ireland in the Digital Age

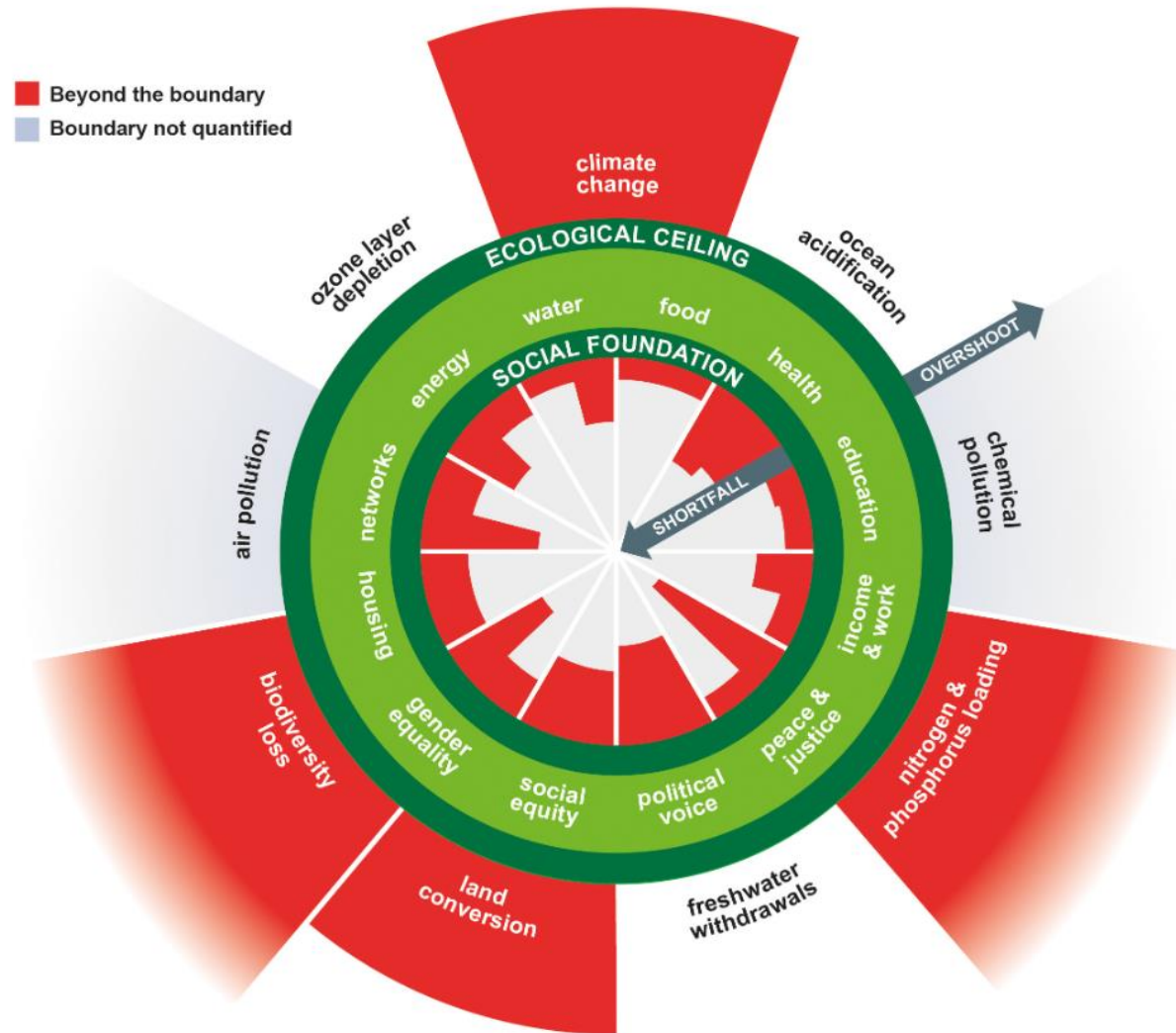
Towards Wellbeing with Digital Public Infrastructure

Tony Shannon

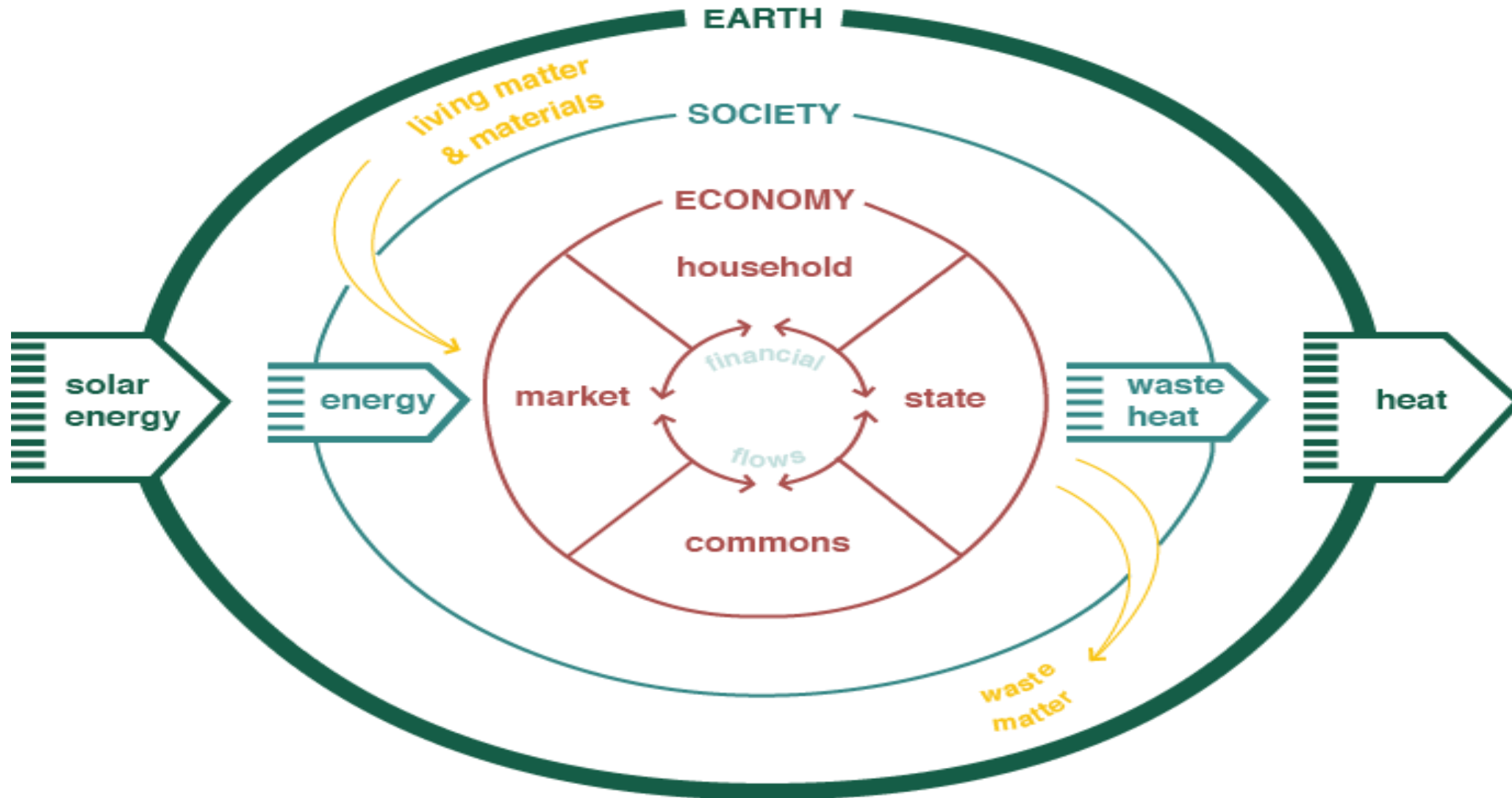
Head of Digital Services
Office of Government Chief Information Officer



21st Century SocioEconomics



Household- State- Market- Commons



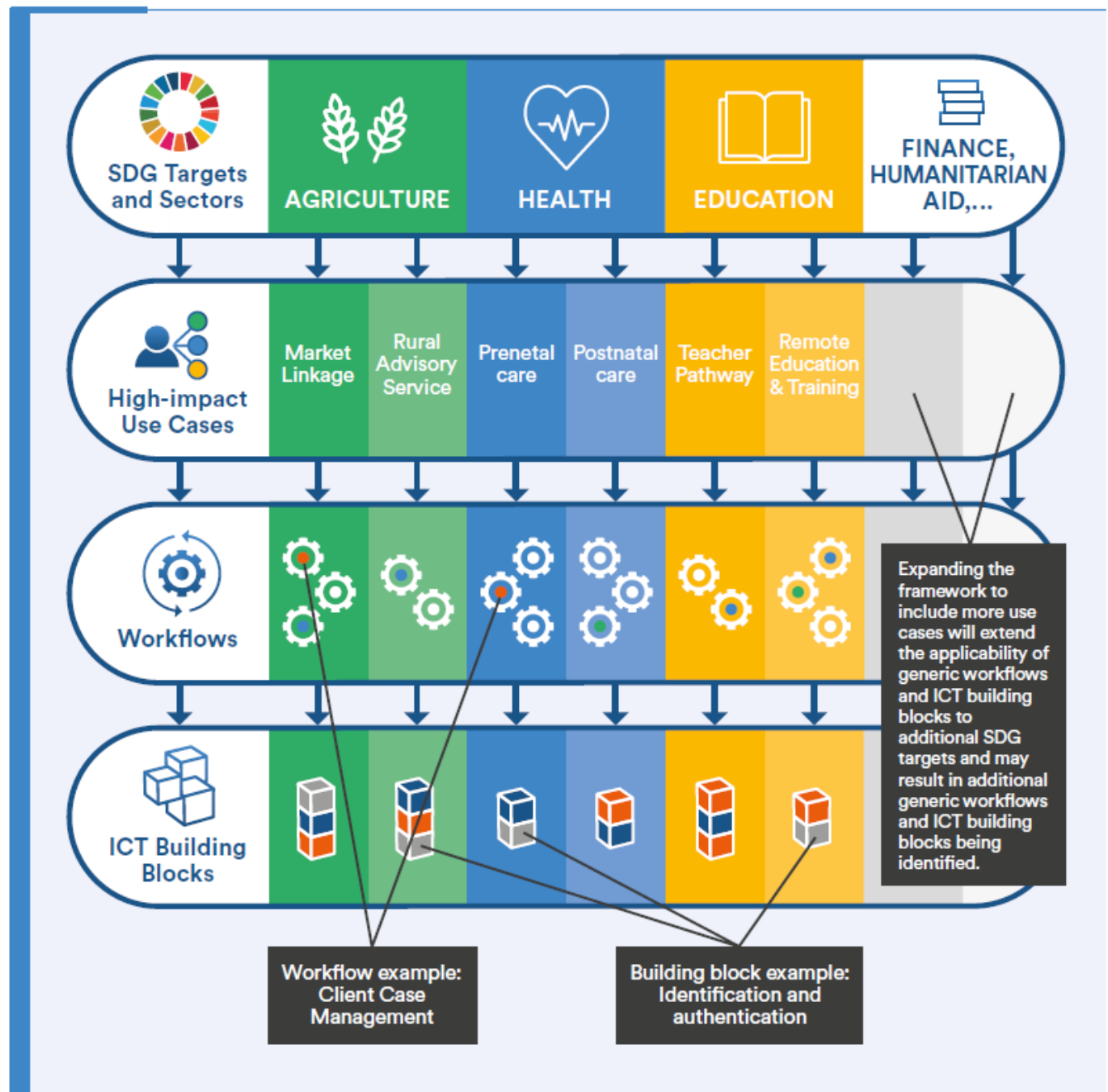


SDG Digital Investment Framework

A Whole-of-Government Approach to Investing in Digital Technologies to Achieve the SDGs



FIGURE 2. Example architectural map using the SDG Digital Investment Framework



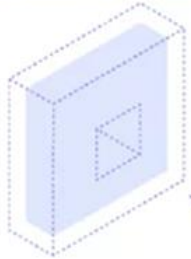
Digital Public Infrastructure

Solutions and systems that enable essential, society-wide functions and services

DPGS AND BUILDING BLOCKS CAN BE IMPLEMENTED AS PART OF A COUNTRY'S DPI

Digital Public Goods

Open license, SDG relevant

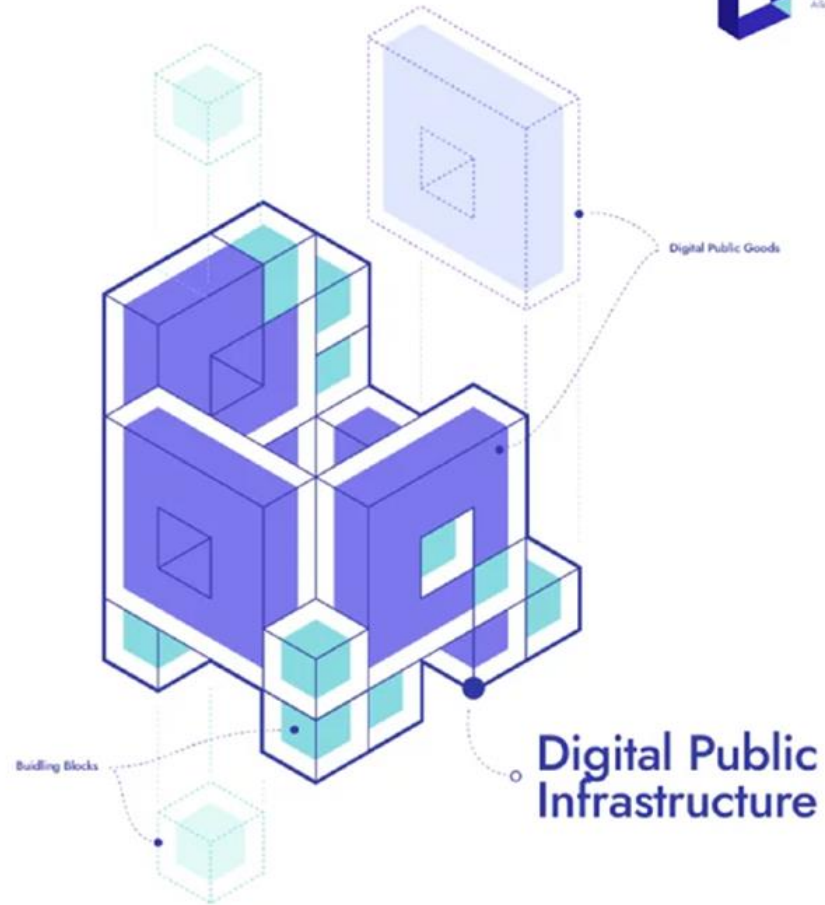


Building Blocks

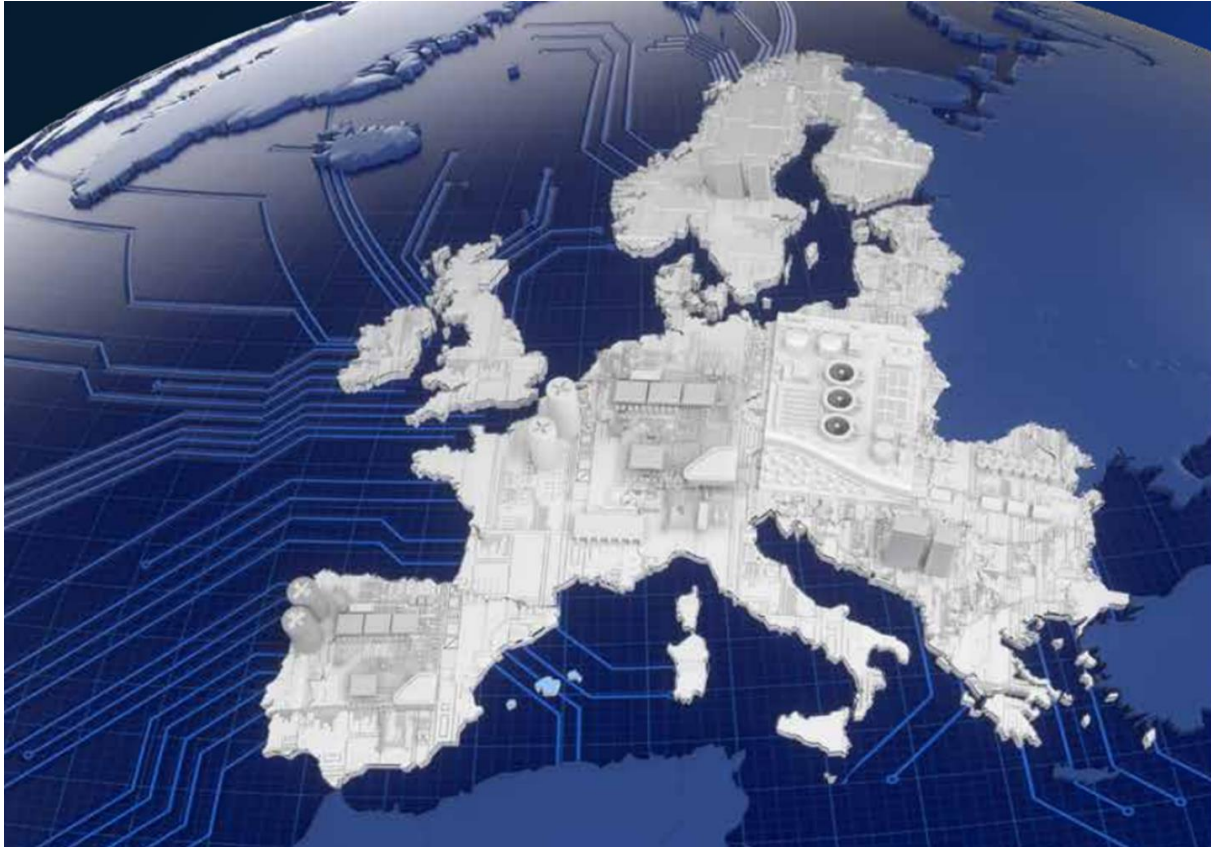
Interoperable, generic component



Interoperable open source solutions that are relevant to the SDGs and have generic components may be both Building Blocks and Digital Public Goods



Towards 2030: Decade of Digital & Green



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Better Public Services

A transformation strategy to deliver for the public and build trust



Digital and Innovation at Scale



The Public Service will work together to

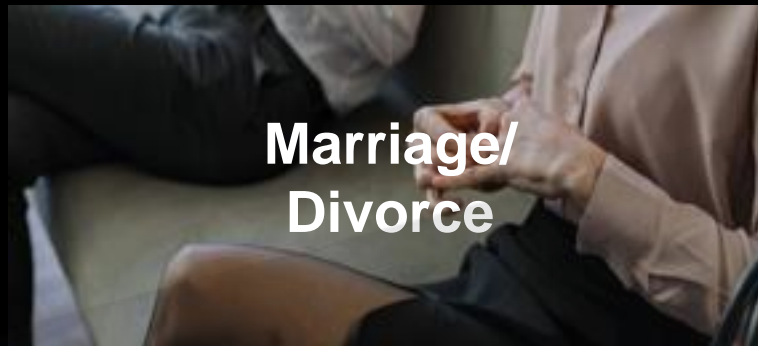
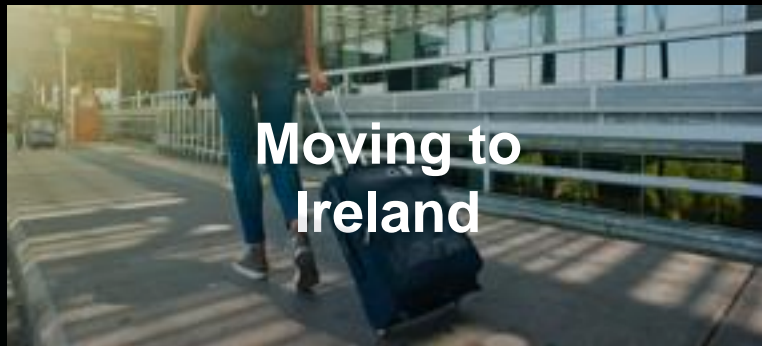
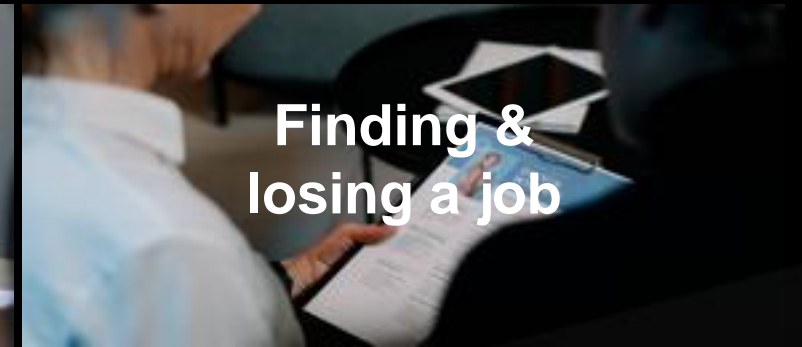
- Tackle big societal issues and drive societal change
- Achieve a seamless user experience and inclusive service delivery
- Provide a dynamic and agile workplace

A Public Service that:

- Builds trust in public institutions
 - Focuses on outcomes
- Delivers climate action and sustainability

Life Events

Life events refer to significant experiences or changes in an individual's life that can have a profound impact on their circumstances and/or well-being. These events often necessitate interactions with multiple services or agencies



What are Building Blocks?

Building blocks are enterprise-ready, reusable software components that provide key functionality facilitating generic workflows across multiple sectors.

Characteristics:

- Reusable software components
- Open-source, commercial off-the-shelf (COTS), or freely available with open access to data
- Facilitates one or more generic workflows
- Applicable to multiple use cases across multiple sectors
- Interoperable with other ICT Building Blocks
- Designed for scalability and extensibility
- Standards-based

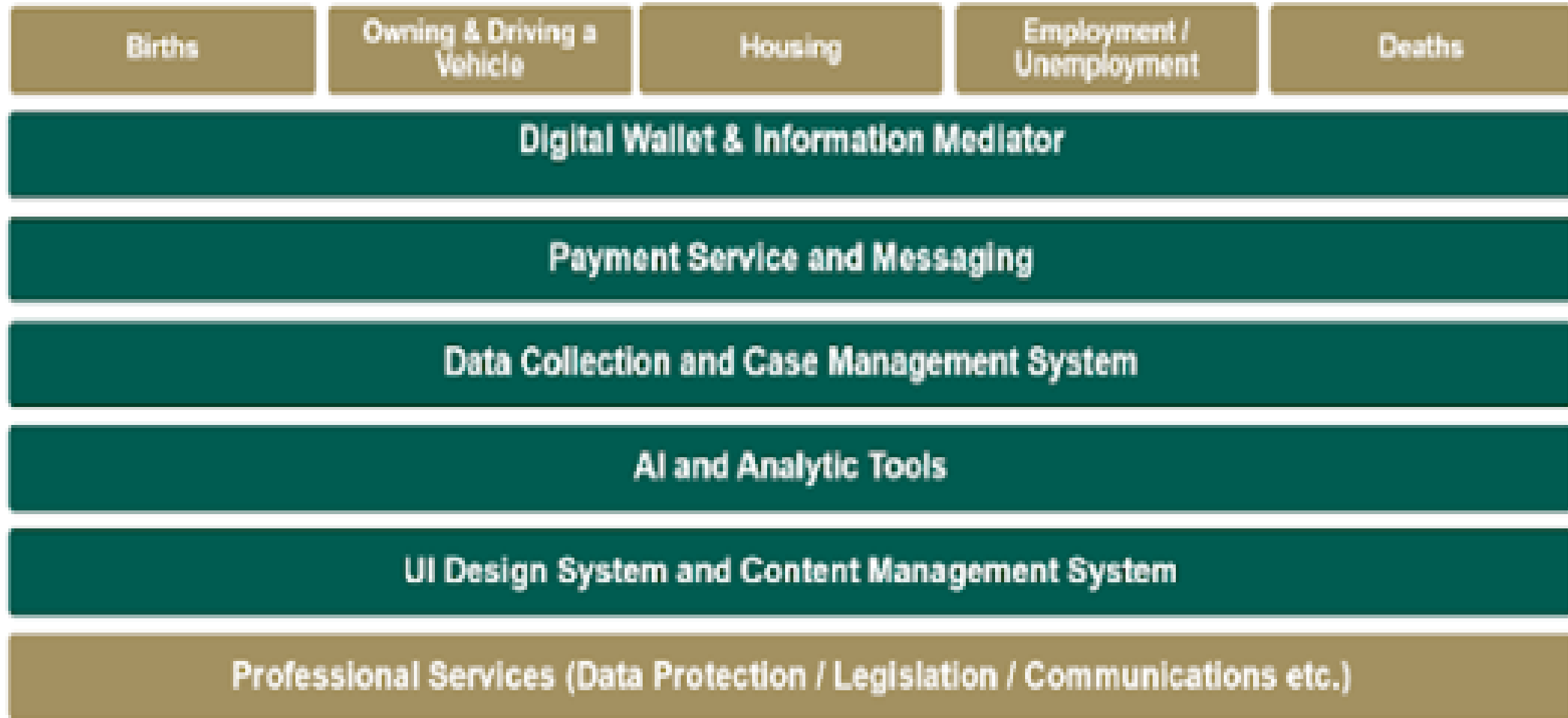


Build to Share

BUILDING BLOCKS



Life Events: Building Blocks Approach



Life Events & Digital Wallet Development



gov.ie My Life Events Search Life Events

Maria Murphy
PPSN: TUV1599432

Driving

- Events
- About me
- Birth
- Health
- Driving**
- Un/Employment
- Starting a business
- Housing
- Death

Renew your driving licence Expires on 19th March - Apply now	Renew a licence if you're 70 or over A line of text to support this statement
Replace a lost or stolen licence A line of text to support this statement	Driving licence categories A line of text to support this statement

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Rialtas na hÉireann
Government of Ireland

9:41 gov.ie Account

Welcome, Maria Murphy


PPSN: 1234567T | DOB: 25-10-1980


Your credentials


- myID [VIEW](#)
- Drivers licence [VIEW](#)
Expiry date: 19/3/2024
[Renew](#)
- Birth certificate [VIEW](#)
- European health insurance card [VIEW](#)
Expiry date: 12/12/2024

Digital Wallet: Credentials & Verification



 Valid

 **Driving Licence**





Details

First Name(s): Mary
Last Name(s): Murphy
Date of birth: 12 December 1994
Place of birth: Ireland

Driving Licence details


4a: 10-05-12
4b: 09-05-22
4c: RSA
4d: 234567
5: MURPH0523789H65SD 17
8: 55 GERRARD STREET, CORK
9: A, B, BE, C1, C1E, D1, D1E, f, k, k, l, n, p


 Valid




Details

First Name(s): Mary
Last Name(s): Murphy
Date of birth: 12 December 1994
Age: 23
Place of birth: Ireland
Address: 55 GERRARD STREET, CORK

 Valid

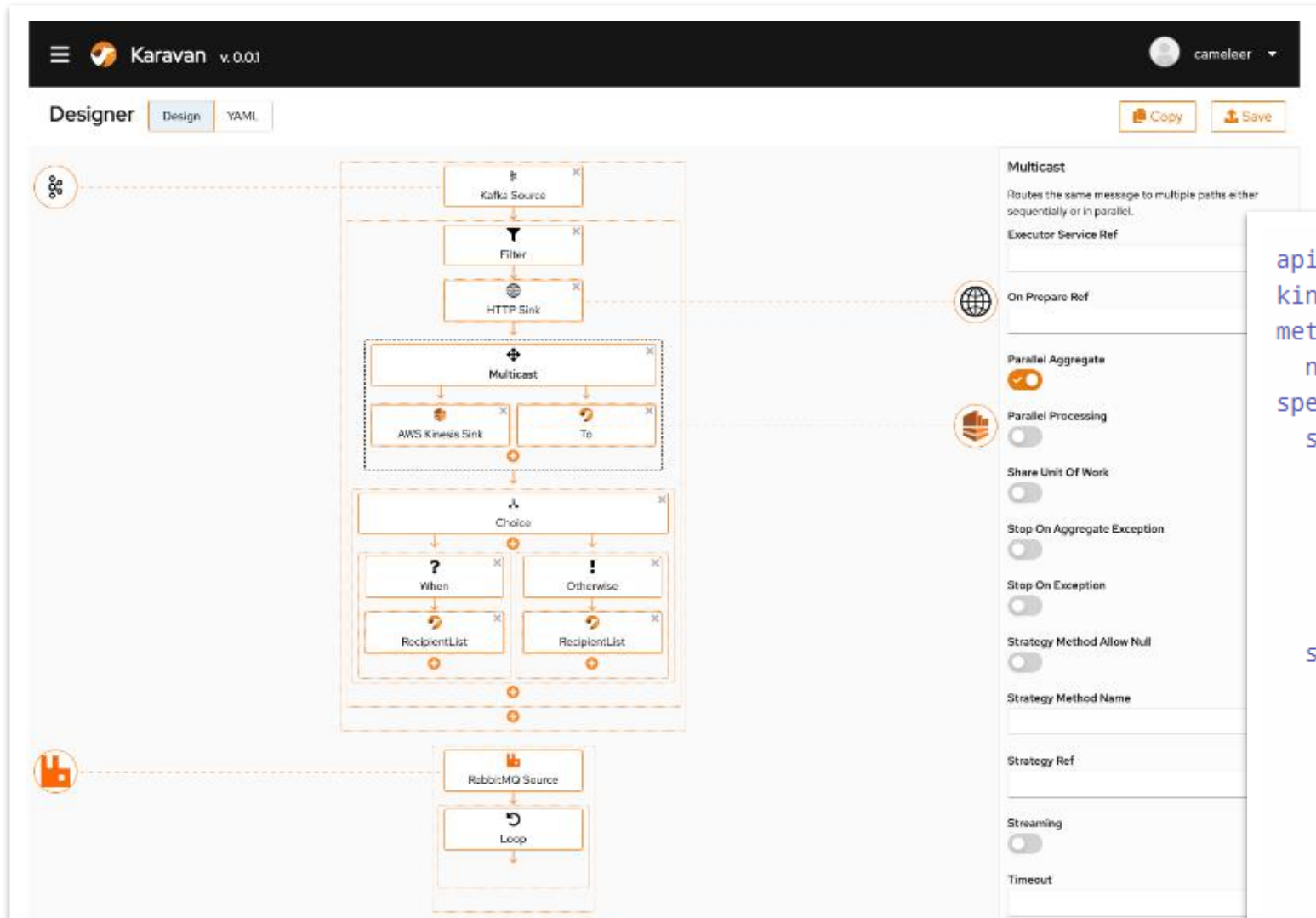


 Is aged at least 18

Criteria:

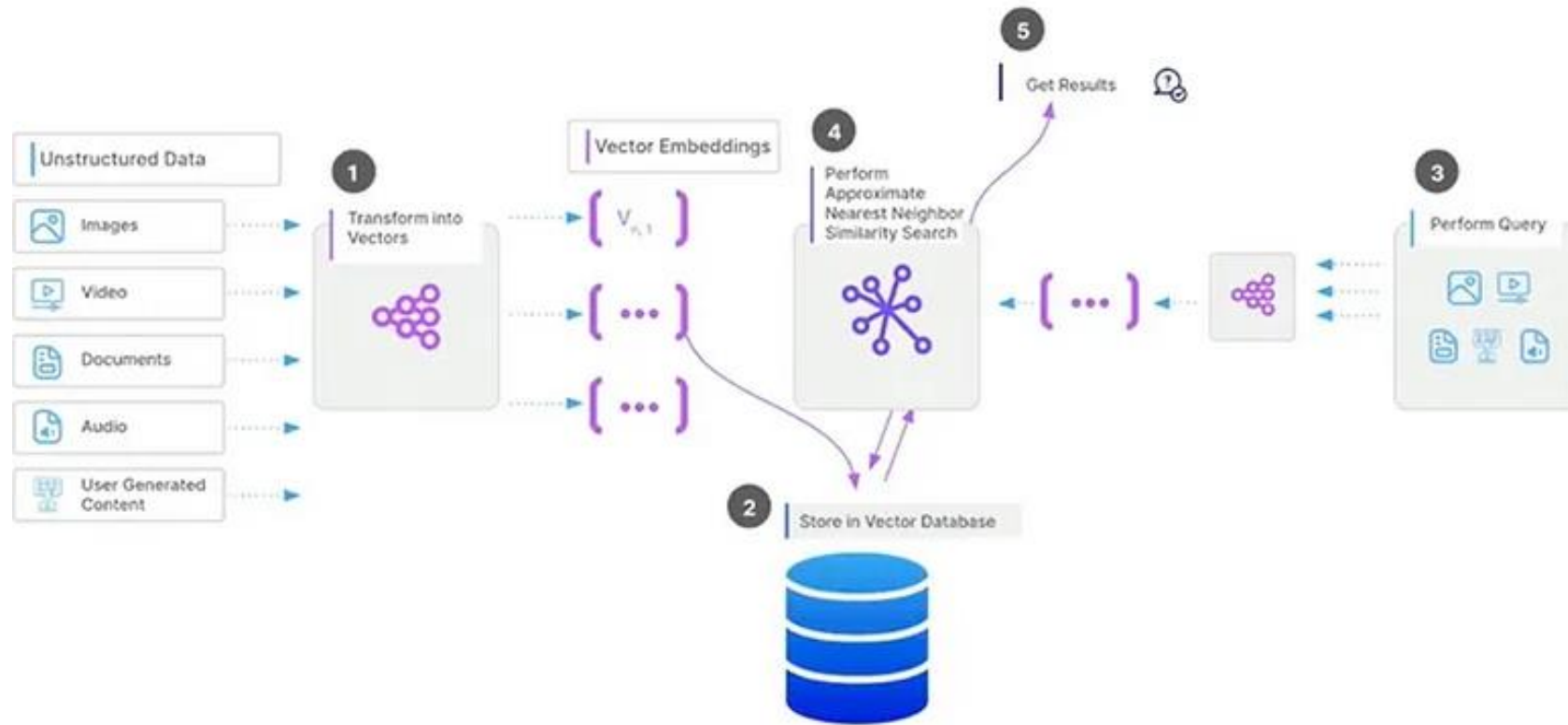
Minimum age: 18

Information Mediator & APIs



```
apiVersion: camel.apache.org/v1alpha1
kind: KameletBinding
metadata:
  name: events-to-s3
spec:
  source:
    ref:
      apiVersion: messaging.knative.dev/v1
      kind: Channel
      name: messages
      # Or a Strimzi "KafkaTopic", if you prefer
  sink:
    ref:
      kind: Kamelet
      apiVersion: camel.apache.org/v1alpha1
      name: aws-s3-streaming-upload-sink
  properties:
    bucketNameOrArn: "my-bucket"
    accessKey: "<your-key>"
    # ...
```

AI Projects & Open Framework



AI Framework Design Principals



Hybrid

A vertical teal bar with a white icon of four curved lines meeting at a central point, representing a hybrid or interconnected system.

Multi-cloud

A vertical blue bar with a white icon of a camera aperture, representing multiple cloud environments.

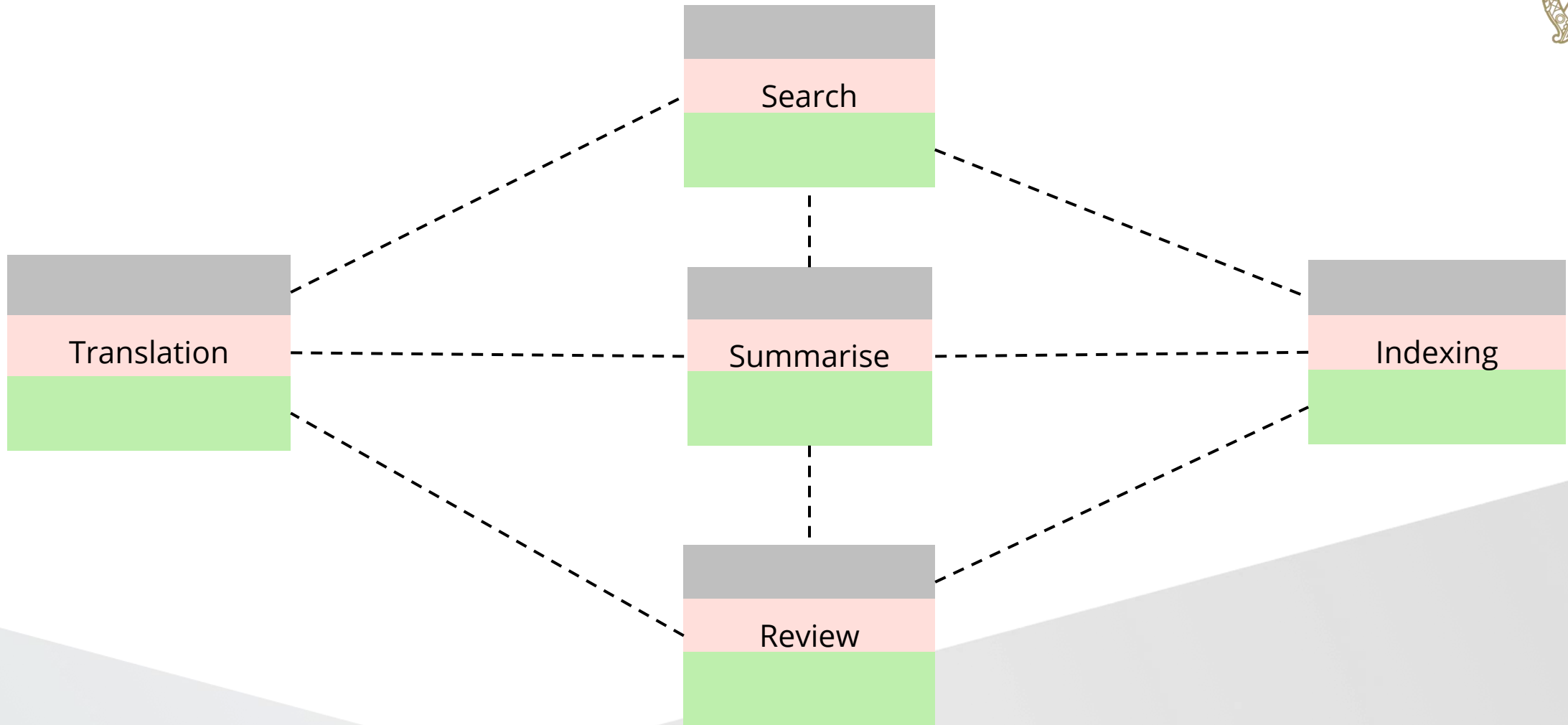
Open source

A vertical gold bar with a white icon of three cubes connected by lines, representing open source or interconnected components.

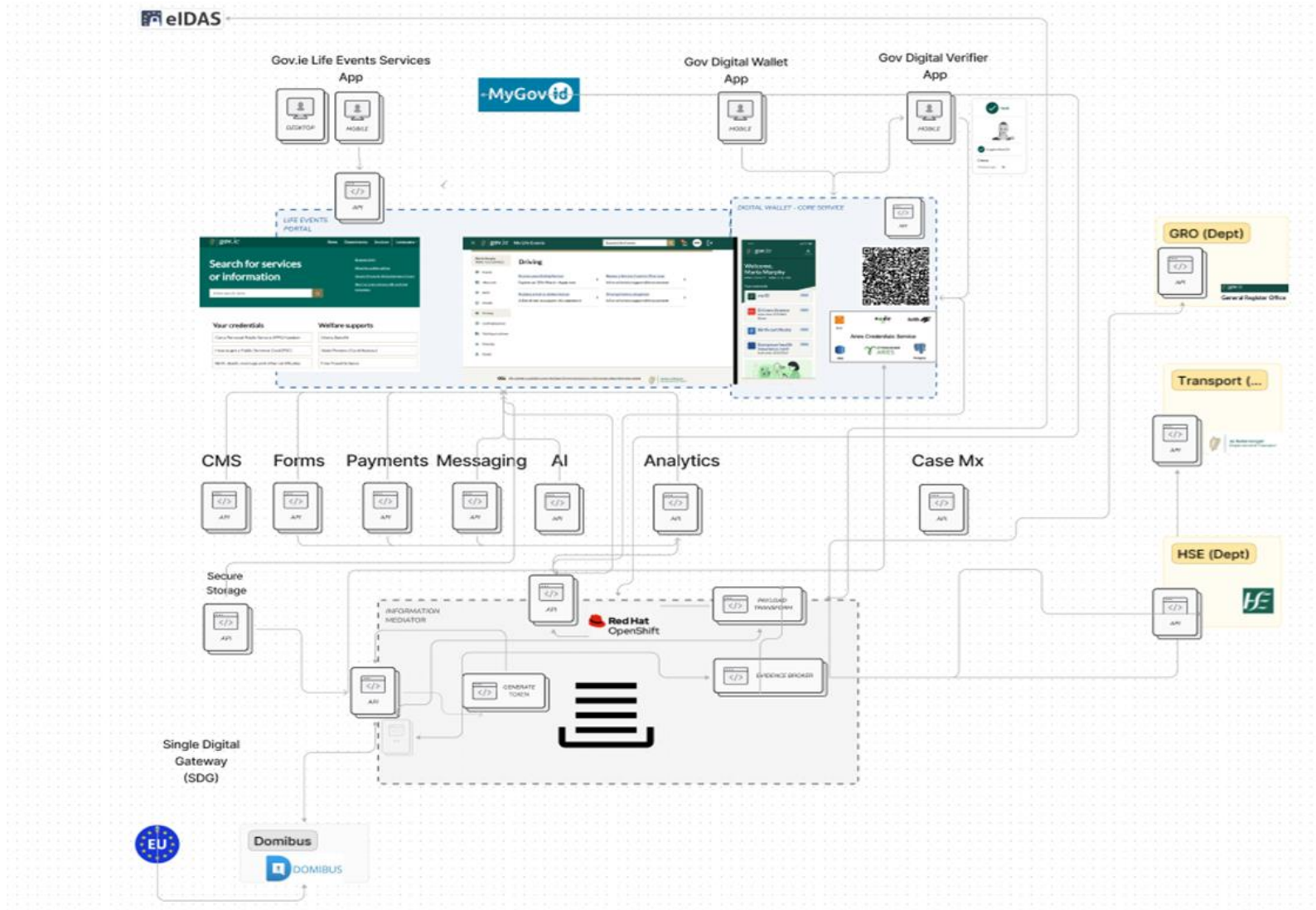
Multiple models

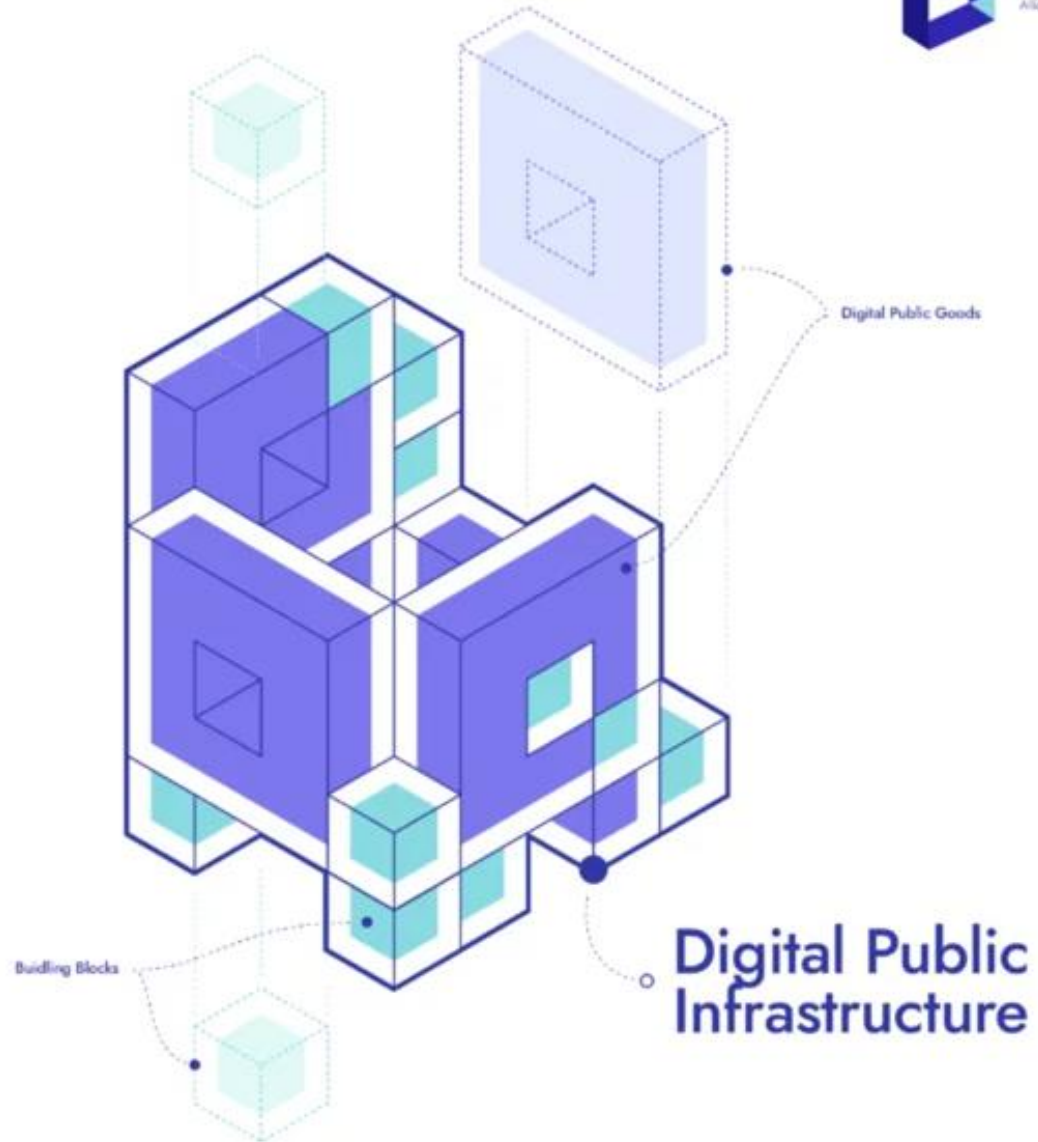
A vertical dark grey bar with a white icon of three stacked books, representing multiple models or knowledge.

AI Network effect

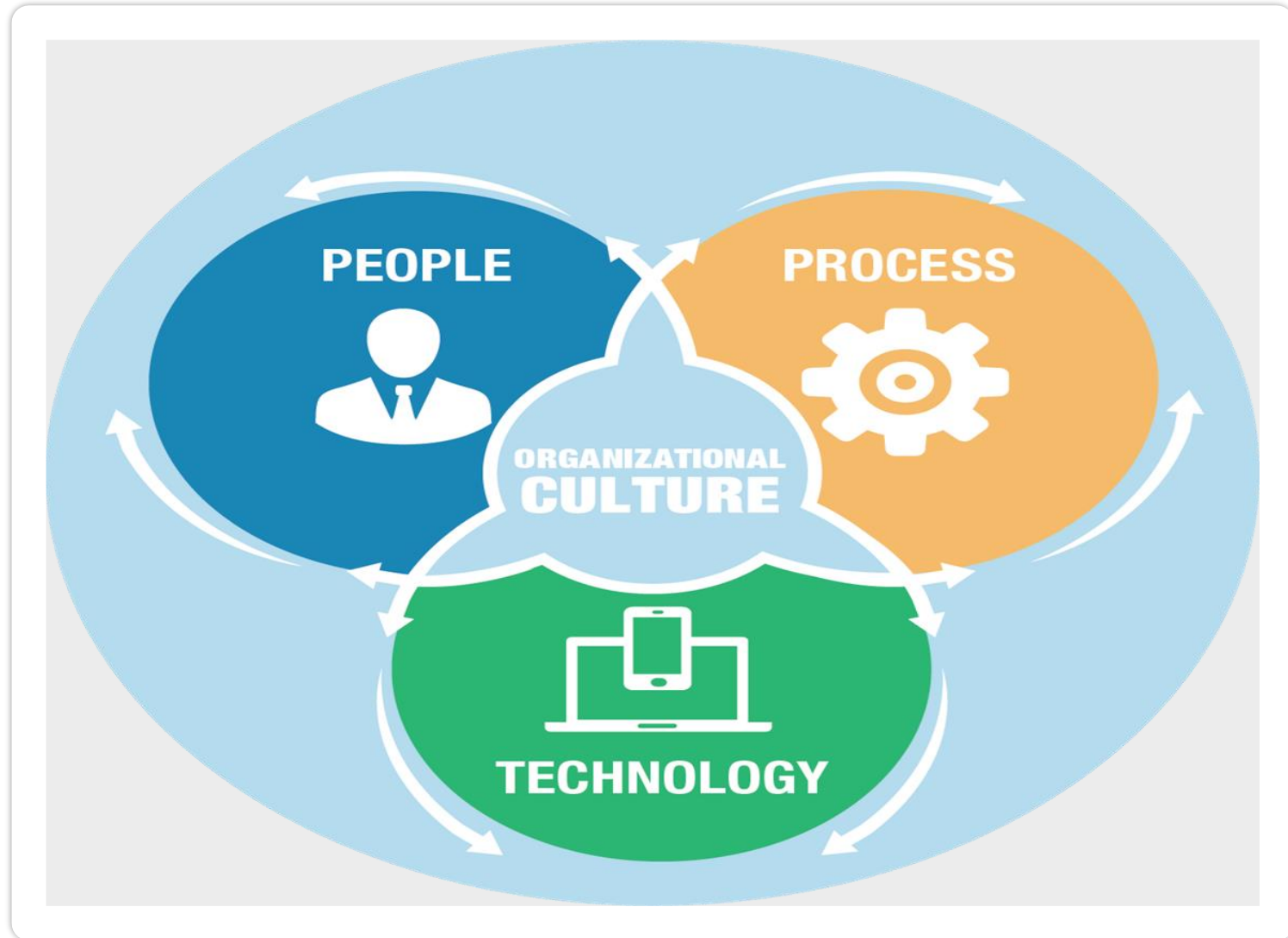


Applications: Federation: Building Blocks





Challenges



Opportunity





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Government of Ireland

Thank you

Tony Shannon
Head of Digital Services
Office of Government Chief Information Officer
Government of Ireland