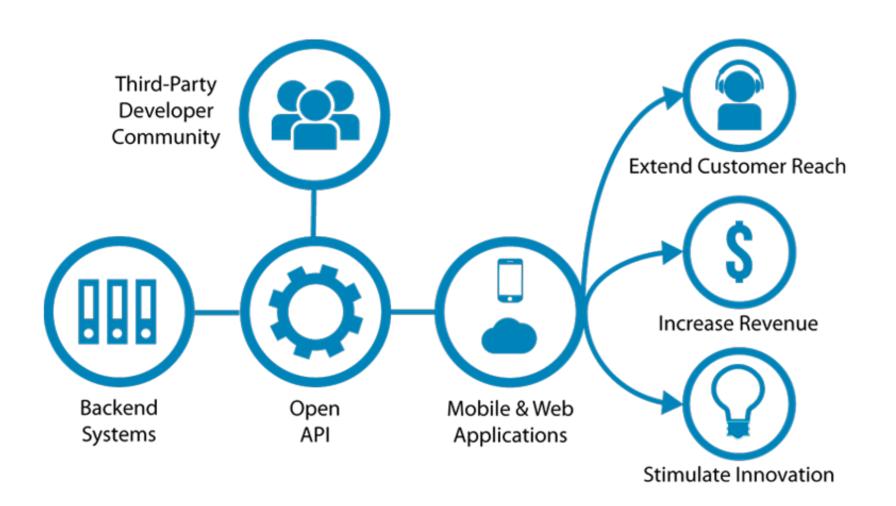


API Setu

Driving Digital Transformation

OpenAPI in a nutshell





The OpenAPI Specification (OAS), is a technical specification that describes REST APIs.

It is a standard interface description for REST APIs that is programming language agnostic.

This enables both computers and human users to identify and understand service capabilities without requiring additional documentation, accessing source code, or inspecting network traffic.

Image Source: https://en.wikipedia.org/wiki/Open_API



APIs in Government

New Zealand



Achieved Rank 1 in Ease of Doing Business

Estonia



Saved 820 Man-Years of time annually with their X-Road API gateway

United States of America



The US government currently **offers a catalog** of open APIs (open APIs here online).

INDIA



Notified its **OpenAPI Policy** and building products for fast tracking its enablement



APIs Transforming India

















Aadhaar

PAN

UPI

DIVIAIVO

DigiLocker

Co-win







APIs Setu Open API Platform

- Facilitate implementation of Open API Policy notified in July 2015
- To build open and interoperable digital platform to enable seamless service delivery across government silos
- To enable quick and transparent software integration with other e-Governance applications and systems.
- To promote 'API first' approach, enabling an ecosystem of micro-services and related cost savings





 To enable and promote safe and reliable sharing of information and data across various e-Governance applications and systems.

 Promote innovation through the availability of data from e-Governance applications and systems to the industry and public.

 Provide guidance to Government organizations in developing, publishing and implementation of Open APIs





Benefits Open API Platform

Minimises Implementation Logic

Consumers can interact with and understand remote services easily

Automation

Documentation generation tools, testing tools,
Code generation tools that generate clients and servers in various programming languages, and others

Single Point of truth - Quality and Security

Following industry standards
Reduces misalignment between the back-end-offered API and the client-consumed API

Overall efficiency and reduction in Costs

All the benefits translate in to cost reduction



Challenges

DATA Publishers

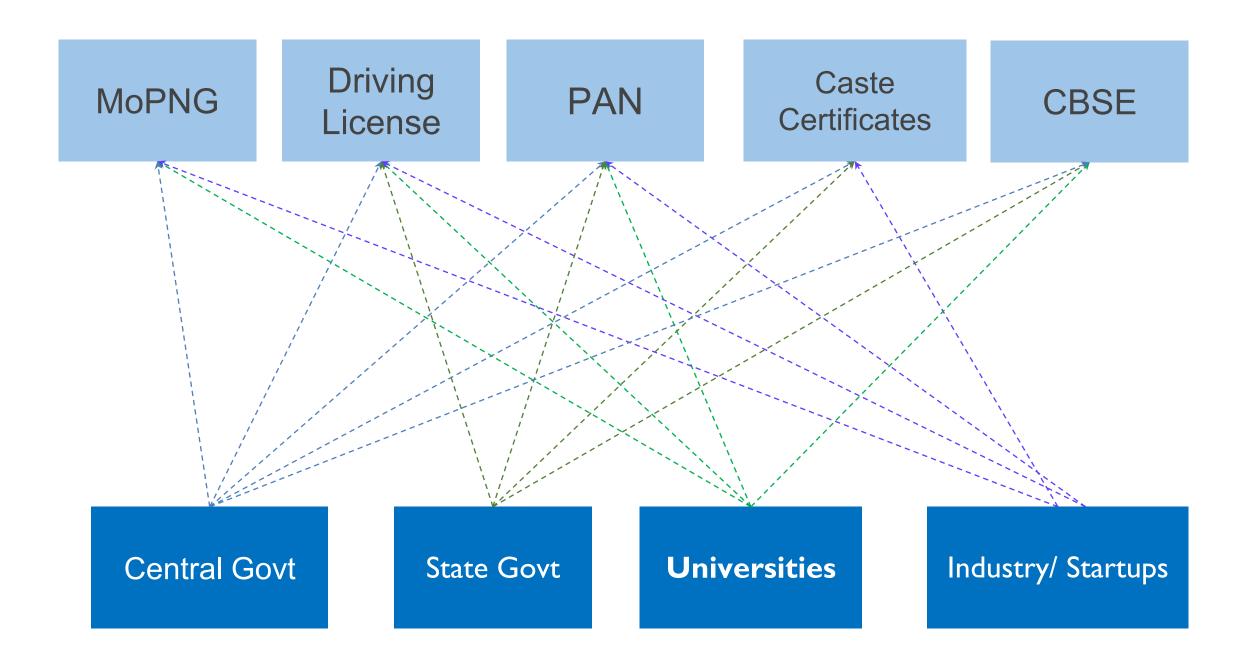
Lack of API availability

Proprietary standards and protocols

Absence of common data standards

N to N connections for access

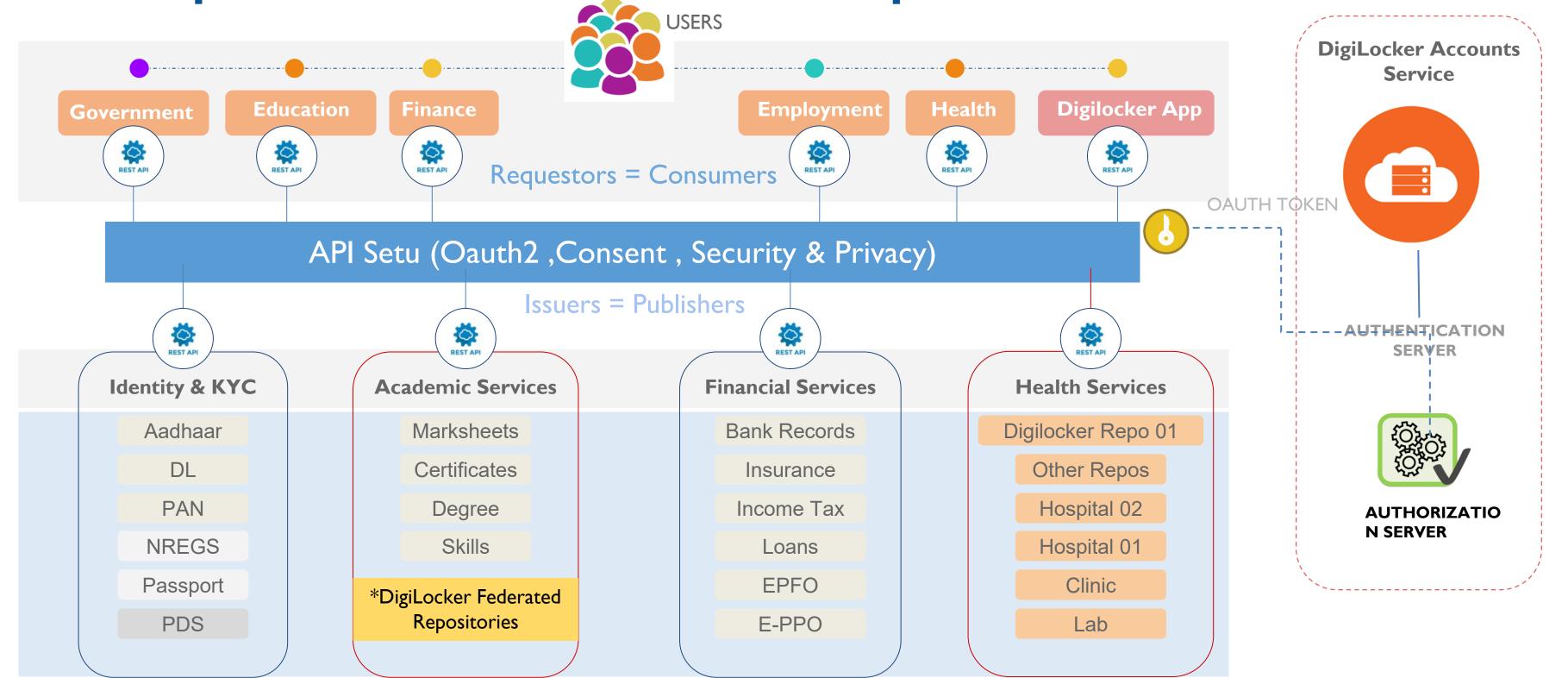
Lack of central governance, common policy, control, accounting and monitoring



DATA CONSUMERS



Proposed API Landscape



API Setu - Features

Single platform to publish and discover APIs

One-stop platform for publishers and consumers

Common policy and governance structure

Industry standard protocols

Standardization of data exchange



API Setu Features

Provides the features for API management:

- o configure, test, publish, discover
- logging & monitoring,
- rate limiting and throttling,
- API authentication and authorization (client id, client secret, API key and OAuth 2.0)
- caching

Transformation and Standardization

- Transforms data in machine readable format
- Maintains and enforces data standards metadata and schemas for information sharing

Consent based data access



Present Status

APIs Published
253 I

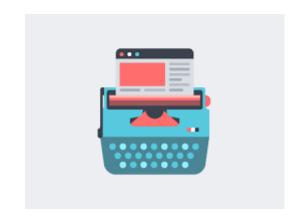
Publishers 1098

Consumers 369

Over 6 crore monthly transactions



API Setu How It Works



As Publisher

Manage API Clients
Control the API Quotas
Monitor usage and performance of APIs



As Consumer

Easily discover APIs

Test and Deploy to perform data exchange



API Development in accordance with Industry standards

Open APIs

Open API Specifications: Doesn't not require rewriting existing APIs RestFul APIS

https://apisetu.gov.in/home/resource



Thank You www.apisetu.gov.in