

OpenAPI in a nutshell



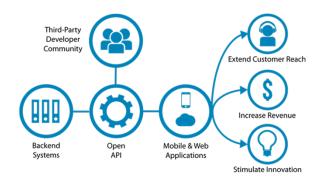


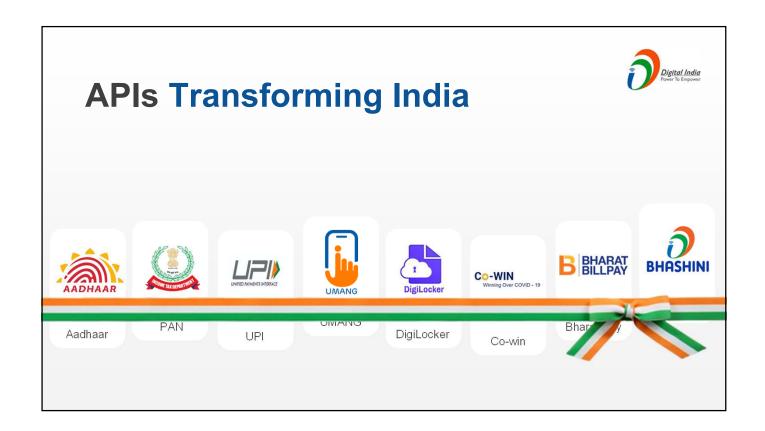
Image Source: https://en.wikipedia.org/wiki/Open_API

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.







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

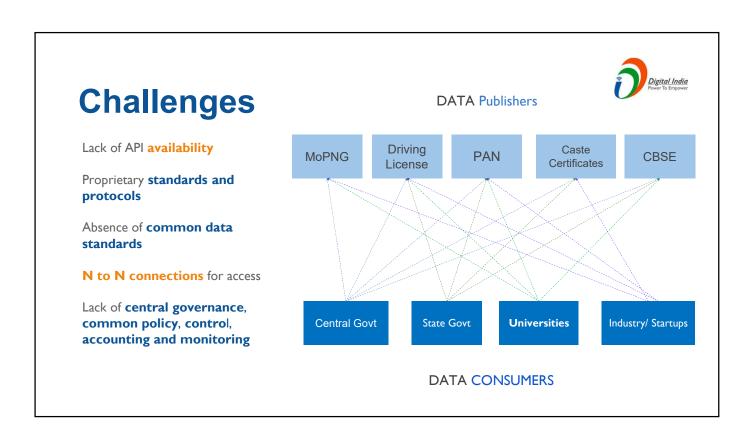
Single Point of truth - Quality and Security

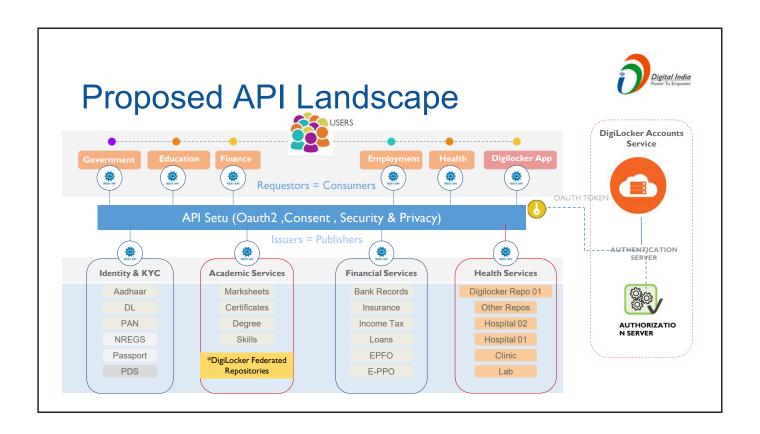
Following industry standards

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





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,
 - o 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
 - o 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

As Consumer

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

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