Closing Remarks

WIPO API Day

June 12 & 13, 2023

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WIPO API Day 1 - Recap

A big thank you to all our speakers!!!

- Opening remarks: Ken-Ichiro NATSUME

- Keynote Speech: Mehdi Medjaoui

- Trends for APIs: Mark O'Neill

- Business evolutions using APIs: Mark Boyd

- API Security: TBC

- API Strategy: Marjukka Niinioja

- API Management: Graham Rivers-Brown

- API standards: TBC

- Emerging APIs: Samrat Kishor
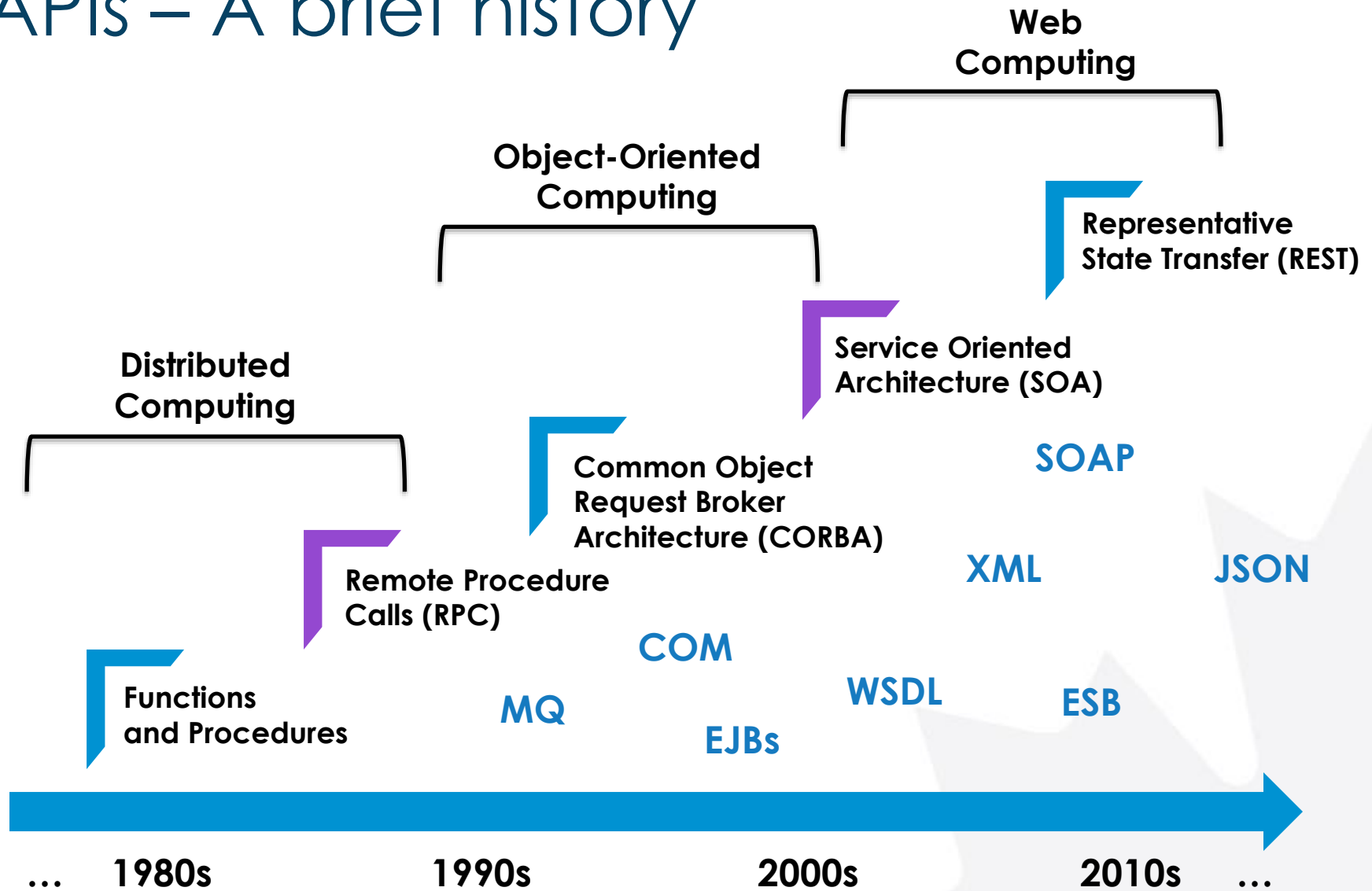
- Panel Discussion: Graham Rivers-Brown

About Me

- I joined Innovation, Science and Economic Development Canada (ISED) in July 2019 as Director to deliver application development and support services to the Canadian Intellectual Property Office (CIPO).

- For the past 3 years, I have been providing strategic leadership and technology direction to support the modernization of CIPO's IT systems by leveraging Agile-DevOps practices and modern architecture built upon cloud-based platforms, serverless computing, and APIs to improve operational efficiencies and overall client experience.

- I spent the first half of my public service career working for the Department of Fisheries and Oceans building enterprise, web and geospatial solutions for the Canadian Hydrographic Service.

APIs – By the numbers

- 65% of developers work on APIs more than 10 hours per week on average

- 69% use REST APIs in Production

- 93% of organizations are testing their APIs or planning to

- 75% of developers utilize internal APIs

- 54% are also leveraging third-party APIs

- 40% of the largest organizations reported having over 250 internal APIs

Source: State of APIs Report 2022 which received 850 responses from over 100 countries

APIs – A brief history

Web Computing

Object-Oriented Computing

Representative State Transfer (REST)

Service Oriented Architecture (SOA)

Distributed Computing

Common Object Request Broker Architecture (CORBA)

SOAP

Remote Procedure Calls (RPC)

XML

JSON

COM

Functions and Procedures

MQ

WSDL

ESB

EJBs

... **1980s** **1990s** **2000s** **2010s** **...**

APIs – The Connective Tissue

- APIs enable us to securely and quickly exchange data and information with the outside world.

- APIs allow us to quickly pivot to new verticals and adapt to changing customer expectations, market dynamics, and technology trends.

- Organizations view APIs as a key to unlocking their digital transformations.

- Developers use APIs to power an ever-increasing number and sophistication level of web, mobile, and desktop apps.

APIs – Driving revenue and growth

What is the expected growth of the API market?

The API market has been experiencing robust growth, and it is expected to continue expanding in the coming years. While I don't have access to real-time market data, I can provide insights based on historical trends and projections up until my knowledge cut-off in September 2021. Please note that the actual market conditions may have evolved since then.

Several reports and studies have forecasted strong growth for the API market. Here are a few projections:

1. Grand View Research predicts that the global API market size, which was valued at around $4.1 billion in 2020, is expected to reach $5.48 billion by 2028, growing at a compound annual growth rate (CAGR) of 3.8% from 2021 to 2028.
2. MarketsandMarkets estimates that the global API management market, including API monetization, will grow from $2.2 billion in 2021 to $6.2 billion by 2026, with a CAGR of 23.2% during the forecast period.
3. ResearchAndMarkets projects the global API management market to grow from $4.2 billion in 2021 to $14.9 billion by 2026, at a CAGR of 28.2% during the forecast period.
4. According to Allied Market Research, the global API integration market is expected to reach $10.32 billion by 2026, growing at a CAGR of 21.1% from 2019 to 2026.

These projections indicate a positive outlook for the API market, driven by factors such as increasing adoption of APIs, digital transformation initiatives, the rise of the API economy, cloud computing, mobile app development, IoT proliferation, and the integration of AI and machine learning technologies.

It's important to note that market conditions can evolve rapidly, and various factors can influence the growth trajectory of the API market. These factors include technological advancements, regulatory changes, industry trends, and market demand. Therefore, it's advisable to consult the latest industry reports and research to obtain the most up-to-date and accurate insights on the expected growth of the API market.