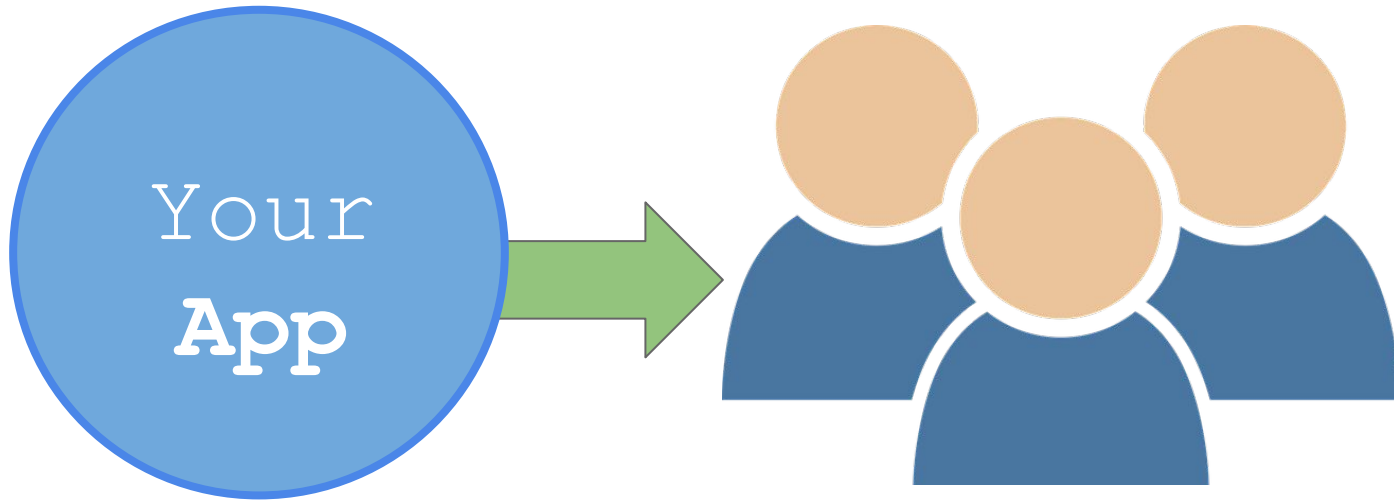


Application Programming Interfaces (APIs) & GSA

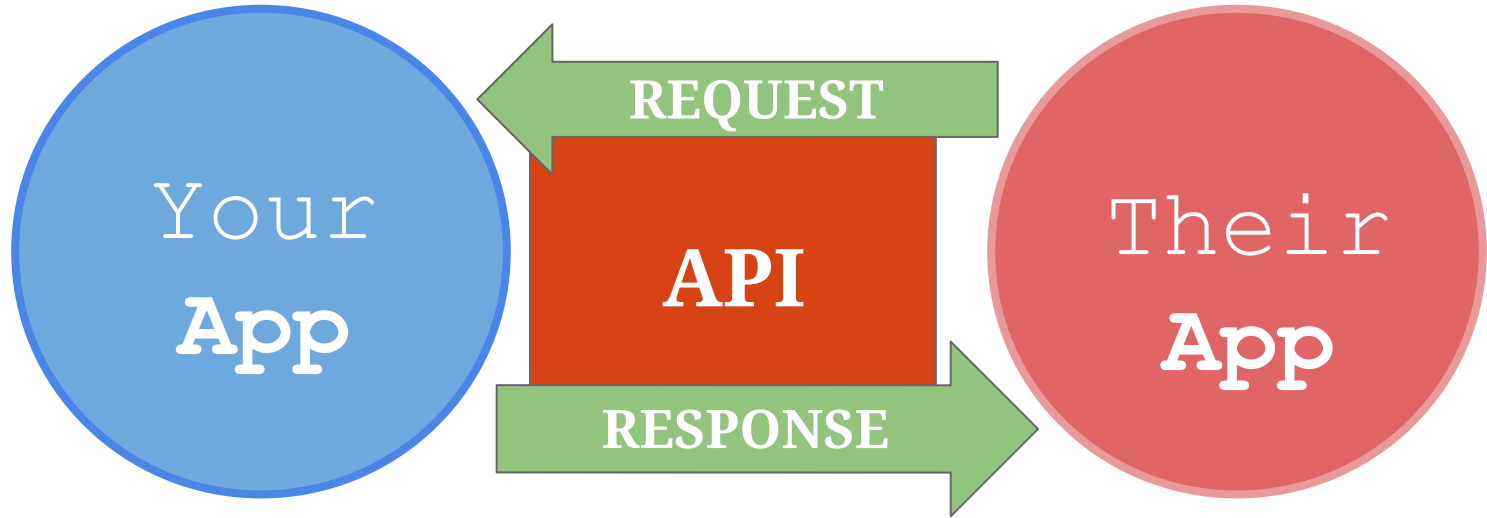
Ryan Day (IC) & Joe Castle (IG)

7/20/17

Users Directly Accessing Your App



API = Application Programming Interface



For this presentation, we're talking about Web APIs

(web)
API

Web APIs Generally:

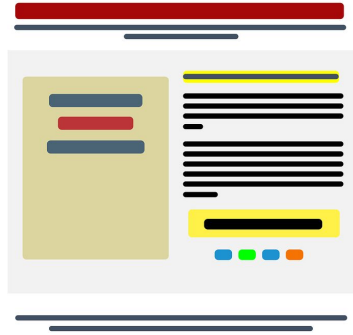
- Use HTTP to communicate
- Have a web-accessible address
- Use a request and response
- Typically transfer data in XML or JSON formats

An API is like a wall socket

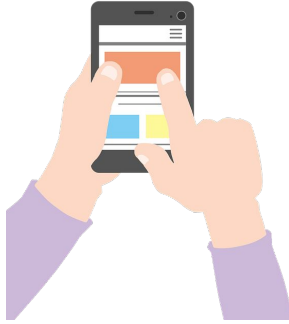


Creative Commons Thatonewikiguy

An API can serve multiple consumers



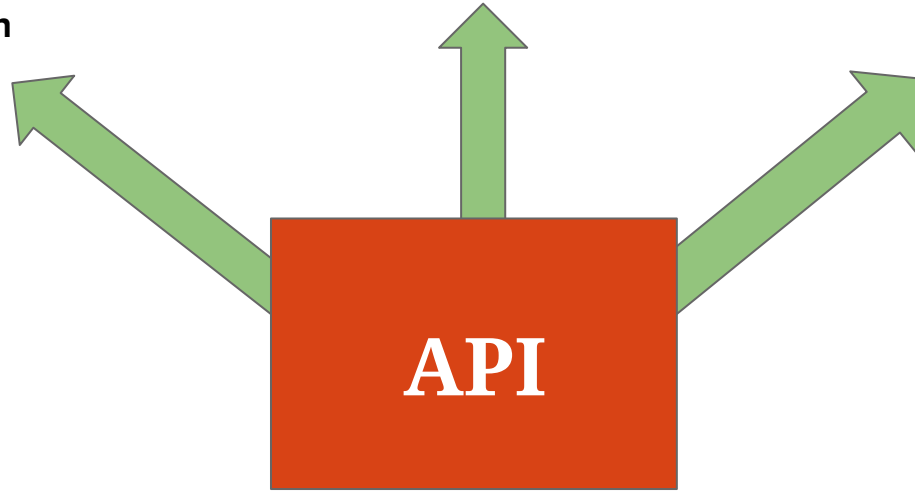
**Your Web Site or
Application**



Mobile Application

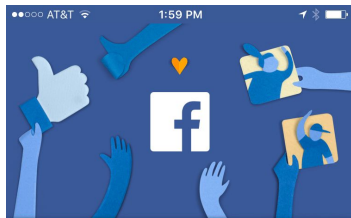


**External web sites
or applications**



API

EXAMPLE



Email or phone number

Password

Log In

[Forgot Password?](#)

OR

[Create New Facebook Account](#)



FACEBOOK APIs

facebook for developers

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Test Users

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Mapping Users Across Apps
and Pages

Security

Development Cycles

Beta Tier and Testing

Ad Providers

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APIs and SDKs

Find out how our APIs work and integrate our products quickly using SDKs for common languages and platforms.



Our APIs

Graph API

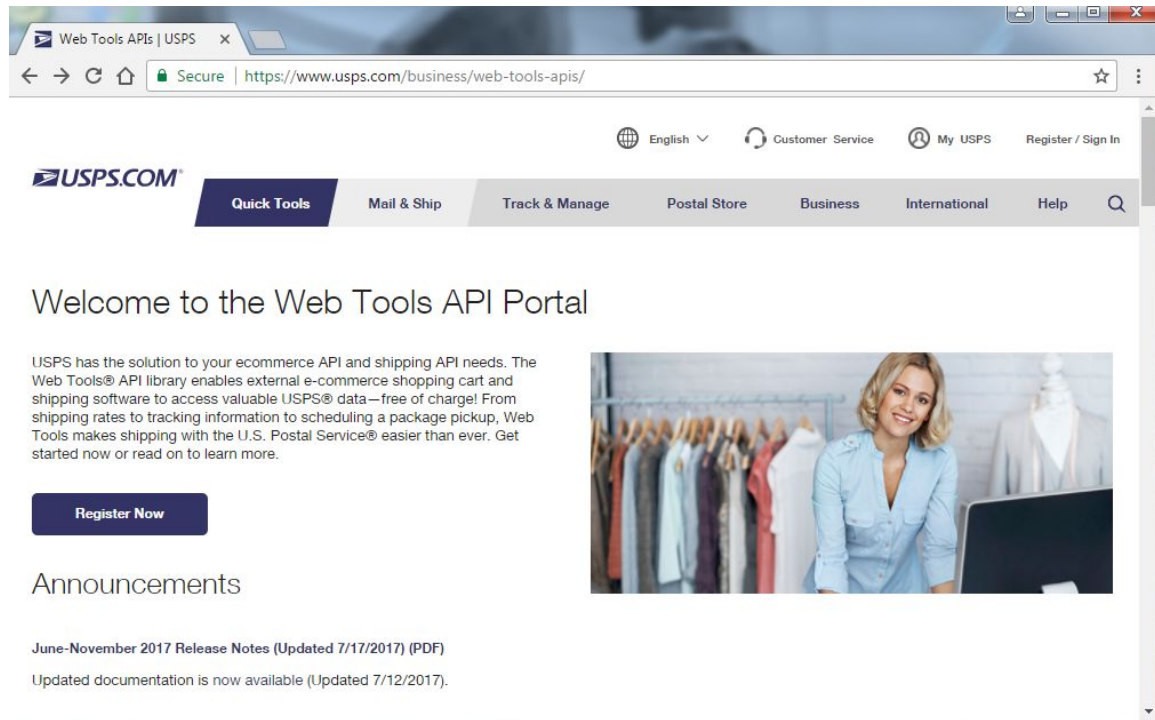
The primary way for apps to read and write to the Facebook social graph. Access Pages, Users,

Marketing APIs

The Marketing APIs offer programmatic access to manage your Facebook ad campaigns, Custom

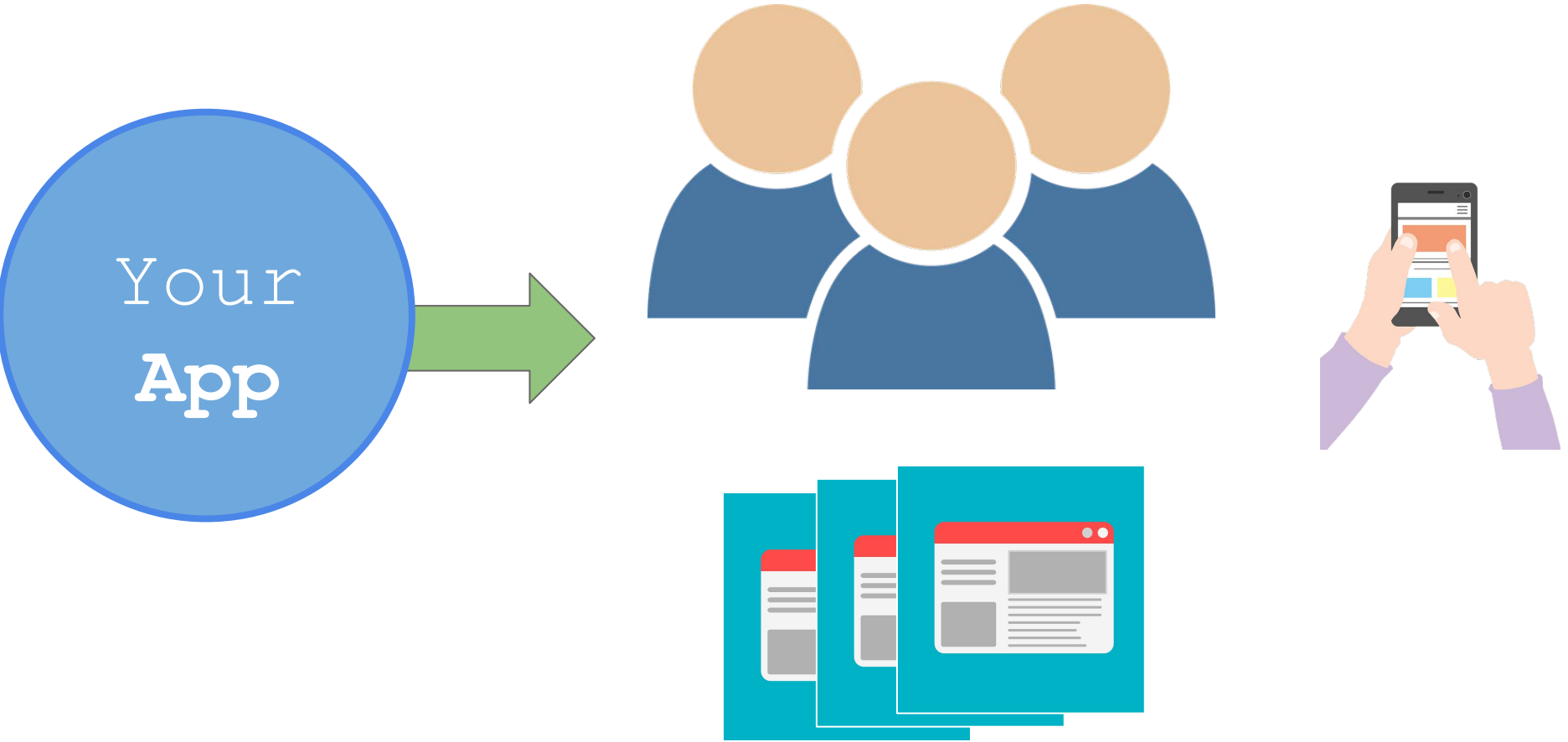
<https://developers.facebook.com/docs/apis-and-sdks>

What other Government APIs are out there?

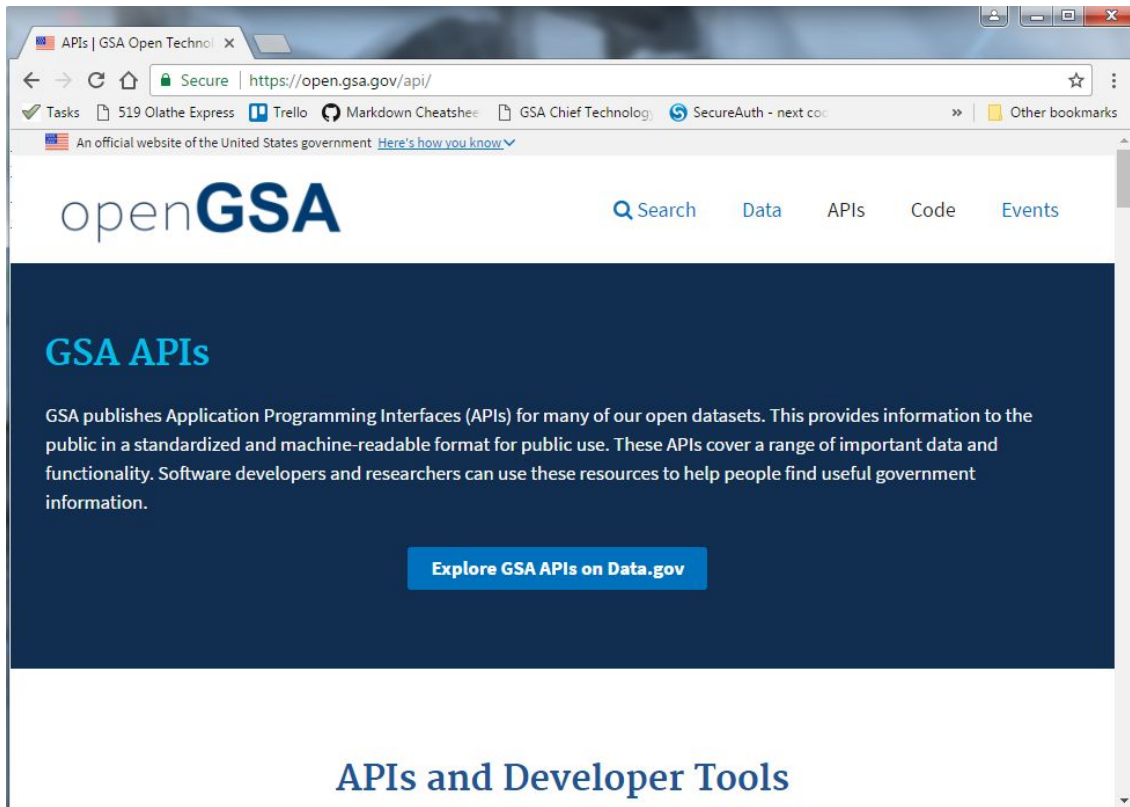


- Package tracking
- Postage price calculator
- Package pickup scheduling
- Address validation

Why create an API?



What GSA APIs are out there?

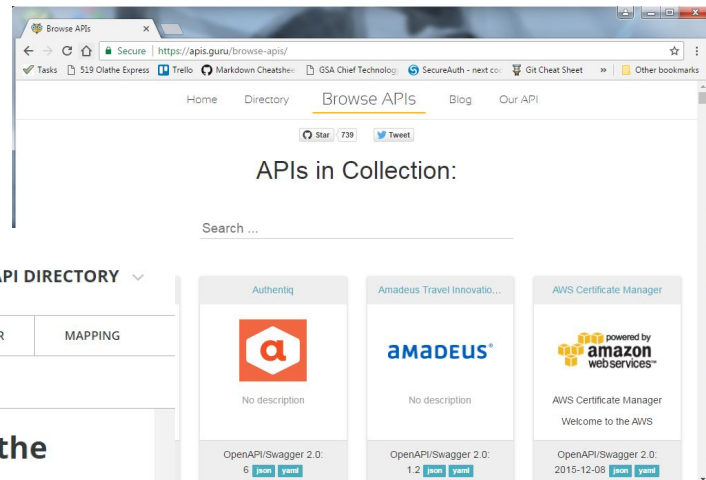
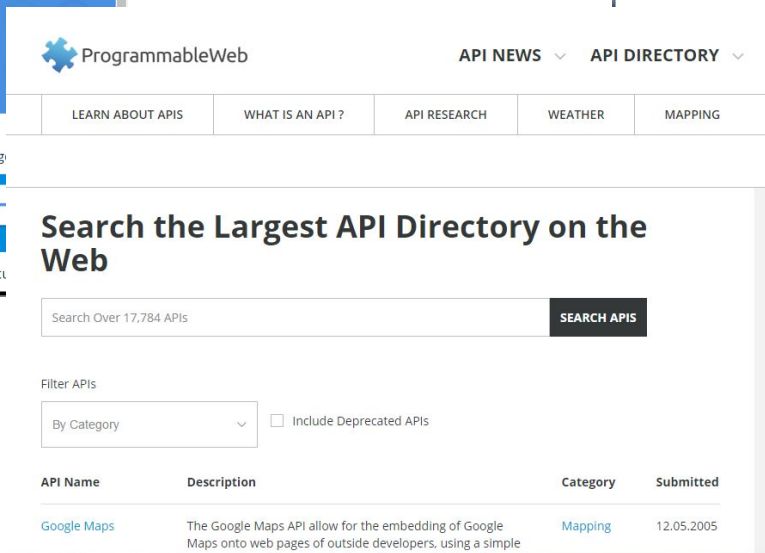
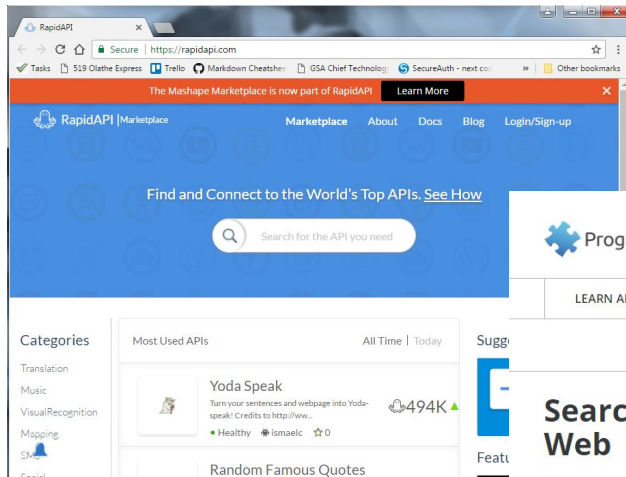


APIs and Developer Tools

<https://open.gsa.gov/api>

What other APIs are out there?

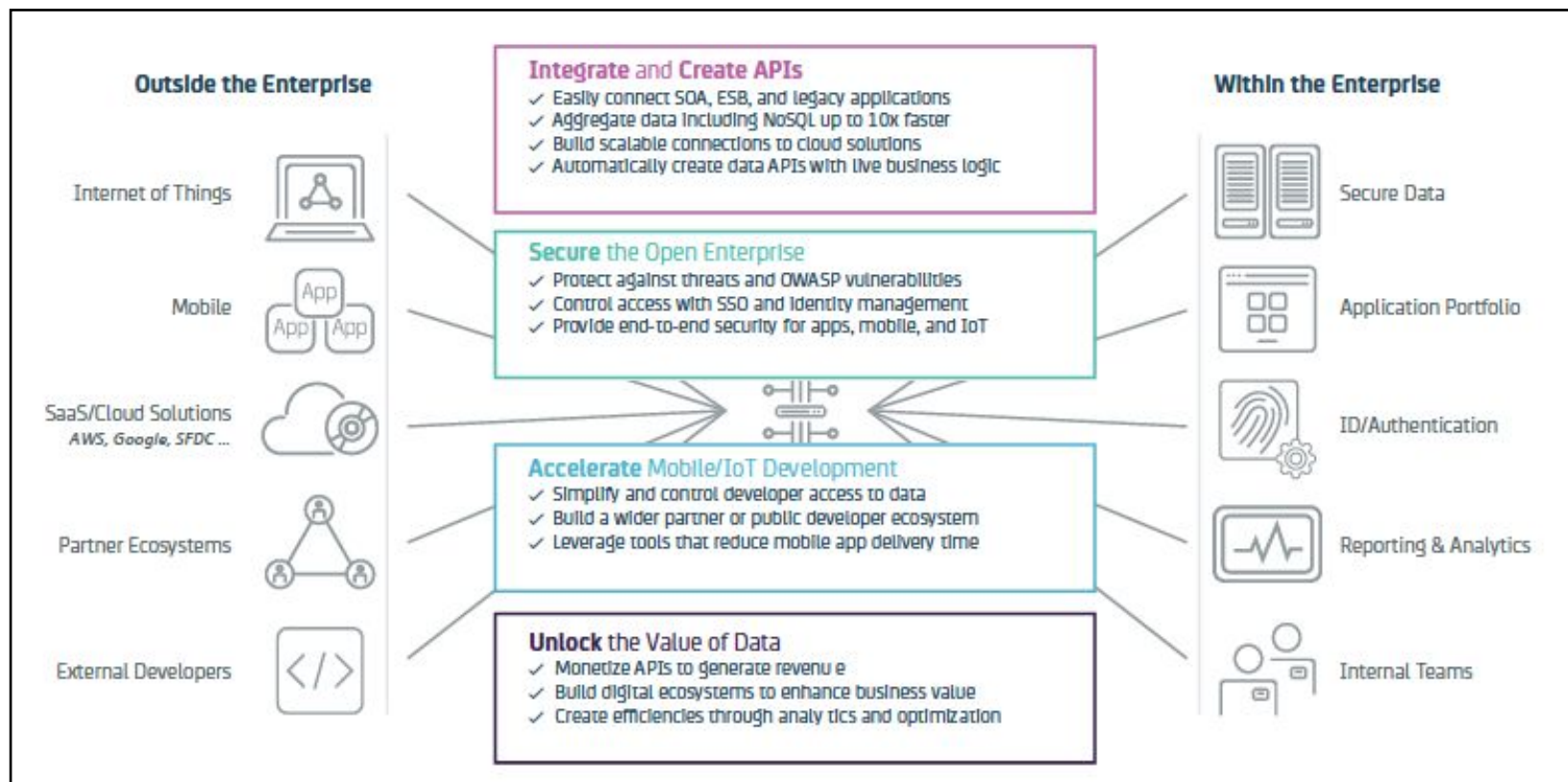
Search “API directory”



API Strategy (w/ examples)

- GSA API Strategy developed and presented to leadership in March 2016
 - Objectives
 - Specifications
 - Recommendations
- Best place to start - <https://open.gsa.gov/api/>
 - Standards, Documentation, Feedback
 - City Pair Program and prototype

API Interactions - External and Internal



Follow-up

- Explore the documentation provided in this Tech Talk
 - Slides posted online at tech.gsa.gov/techtalks
 - Reach out to Ryan and Joe with questions
 - Consider creating your own APIs
- Join our quarterly API Workgroup
 - Features APIs currently being developed at GSA
 - Features industry and government guest speakers