

# Open Banking

## A Developer's Perspective



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API Evangelist  
Axway





# Developer Advocate



/in/uhitzel



/u1i/slides





cosmicrenaissance

1,257 posts

194 followers

615 following

**Just some guy, really.**

+65

City life, scenery, food.

Camera: Samsung Galaxy S7/S9



{ api }



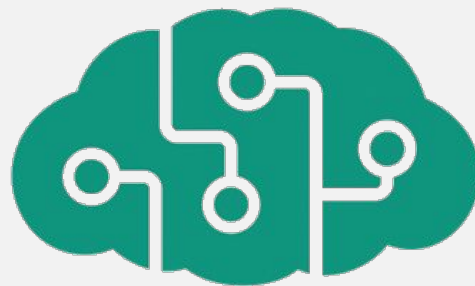
[illegible]



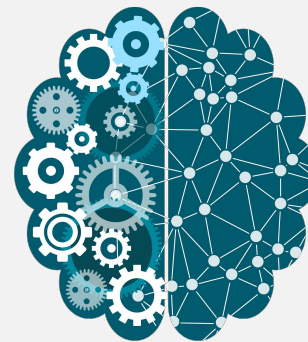
+



+



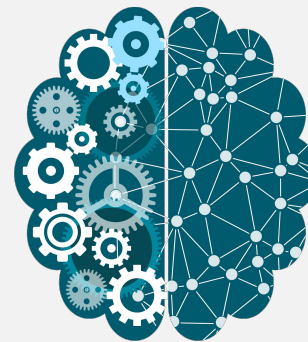
 Microsoft  
Cognitive Services



**Text:** "a close up of a pizza"

**Confidence:** 0.9246481371443355

**Tags:** "pizza" "food" "table" "sitting" "cheese" "plate" "top" "piece" "slice" "toppings"  
"close" "eaten" "sauce" "covered" "wooden" "large" "pepperoni" "white" "pan"

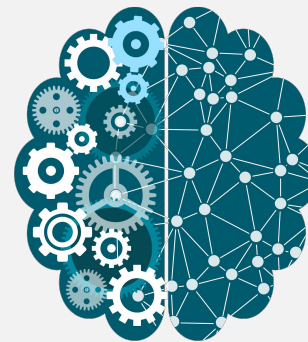


**Text:** "a cup of coffee"

**Confidence:** 0.8527612488821656

**Tags:** "cup" "table" "coffee" "food" "sitting" "drink" "plate" "sandwich" "breakfast"  
"spoon" "glass" "close" "donut" "hot" "white" "phone" "soup"

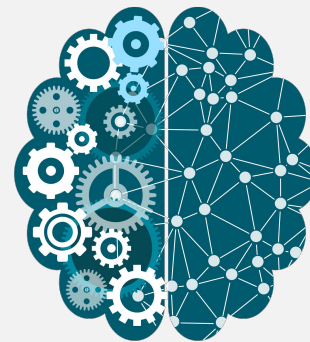




**Text:** "a wooden table next to a window"

**Confidence:** 0.8365439206950018

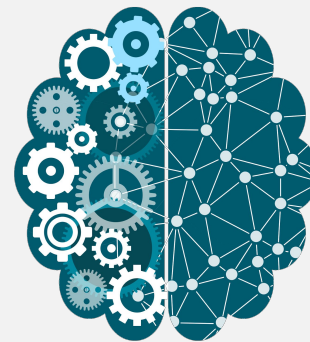
**Tags:** "table" "indoor" "window" "room" "sitting" "chair" "small" "desk" "wooden"  
"laptop" "lit" "top" "light" "counter" "computer" "living" "kitchen"



**Text:** "a sunset over the ocean"

**Confidence:** 0.8065587199349568

**Tags:** "outdoor" "water" "beach" "sunset" "ocean" "sun" "man" "pier" "track"  
"board" "top" "large" "red" "standing" "surfing" "walking" "boat" "holding" "flying"



**Text:** "a bunch of bananas"

**Confidence:** 0.37608016747604295

**Tags:** "animal" "covered" "sitting" "old" "side" "large" "water" "lot" "many" "top"  
"table" "bunch" "street" "fire" "bird" "snow" "parking" "group" "river" "ocean" "field"

# Agenda

1 – Open Banking – Evolution & Roadmap

2 – Challenges & Roadblocks

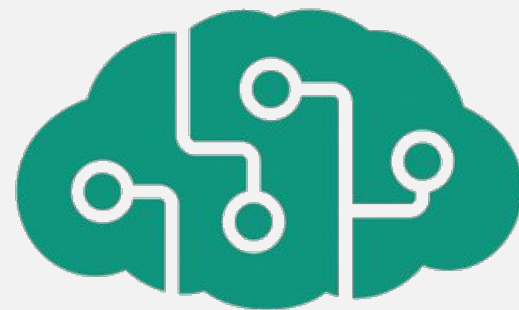
3 – Building Great APIs:  
Developer Experience &  
Innovation





# You've just seen a great Example

- API abstracts something really complex
- Quick Results
- Easy to use → More Users → More Sample Data → AI learns → Better Product



Microsoft

Cognitive Services



# Developers



# Two Worlds

- Open Banking: Initiated by Regulators
- FinTech: Consume APIs & Create New Offerings

**→ Offer & Consume  
Financial Services in a  
new Way**

# The Big Bang

- October 2015: PSD2 (EU)
- Allow using 3rd parties to manage finances
- Banks obligated to allow access

**→ Innovation, Protect  
Consumers & Payments**







# Open Banking Ltd.

- 2016: Large UK Banks required to allow access to licensed startups
- Payments is only the start
- Define Phases
- Phase 1:
  - Accounts
  - Payment Initiation
  - Transaction History

# Worldwide Adoption

- Hong Kong: Identical Model
- Singapore: Collaborative Approach
- Australia: Recommendations instead of Directives



## 200+ APIs available

More than 200 APIs to support your business and your customers' needs



Deposits



Fund Transfers



Loans



Parties



Rewards



Reference Data

[View All](#)

# 'Hello World' in 5 Minutes

- Instant Access
- Sandbox
- Examples, Tutorials & Documentation





# Challenges & Roadblocks

- Interface Design & Documentation
- Access to Resources: The Cloud sets Expectations
- Quick Prototyping
- Plausible Mock Services & Data



```

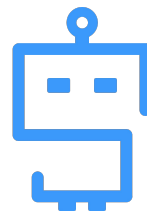
1  swagger: "2.0"
2  info:
3    description: "This is a sample server
      out more about Swagger at [http://swagger.io]
      or on [irc.freenode.net, #swagger]
      this sample, you can use the api to
      authorization filters."
4    version: "1.0.0"
5    title: "Swagger Petstore"
6    termsOfService: "http://swagger.io/terms/"
7    contact:
8      email: "apiteam@swagger.io"
9    license:
10     name: "Apache 2.0"
11     url: "http://www.apache.org/licenses/LICENSE-2.0.html"
12  host: "petstore.swagger.io"
13  basePath: "/v2"
14  tags:
15  - name: "pet"
16    description: "Everything about your
      externalDocs:
17      description: "Find out more"
18      url: "http://swagger.io"
19  - name: "store"
20    description: "Access to Petstore
      externalDocs:
21      description: "Find out more about
22      url: "http://swagger.io"
23  - name: "user"
24    description: "Operations about user
      externalDocs:
25      description: "Find out more about
26      url: "http://swagger.io"

```

# Design First

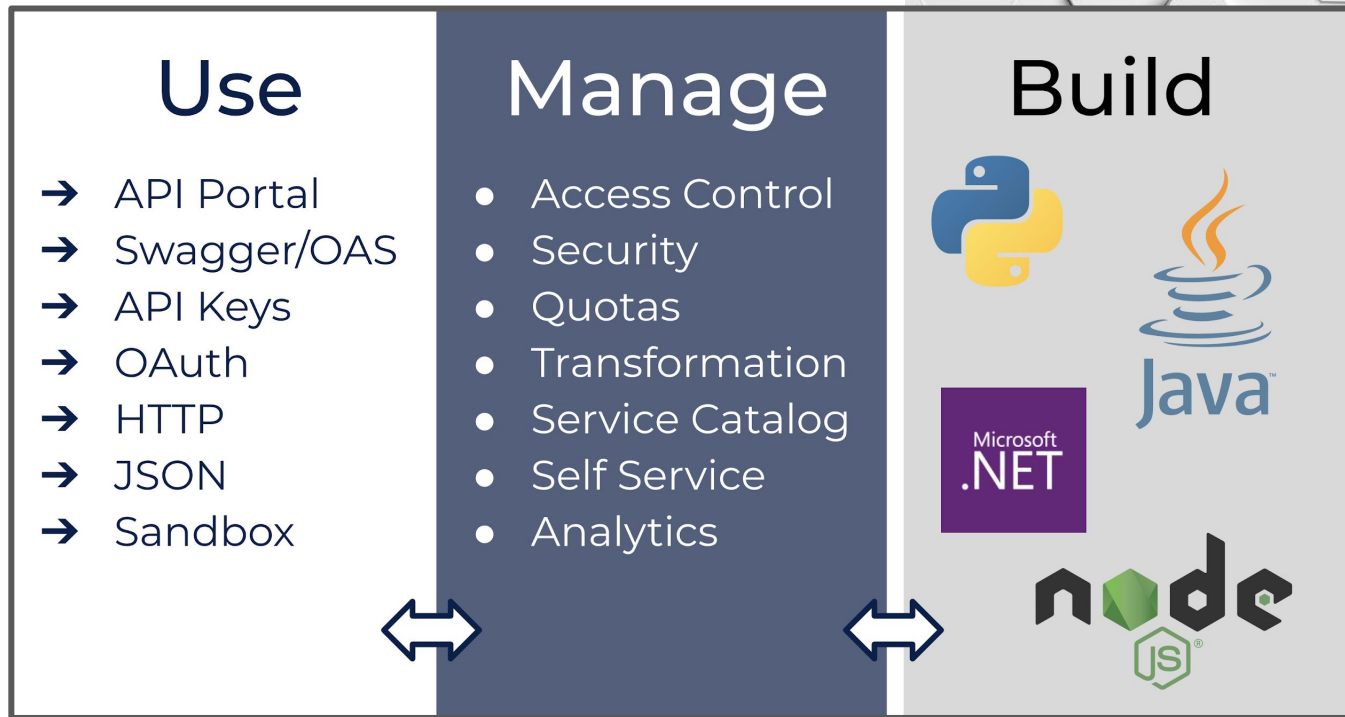


- What can I do?
- What do I get?
- Data Models
- Authentication
- License



# Divide & Conquer

2





YOISHO  
偽の会社

# Use Mock Tools

3

SOAP & REST  
Webservices / APIs  
for a fictional  
japanese bank. Easy  
to run docker  
images that expose  
endpoints you can  
use for demos and  
testing.



View On GitHub





# Get Started

- **Use:** Postman, Swagger, Stoplight
- **Experiment:** Use Uli's Open Banking APIs
- **Join & Share:** Participate at Meetups & Get Involved



/u1i/yoisho

