

# An Overview of the Azure Cognitive Services

---



**Barry Luijbregts**

SOFTWARE ARCHITECT & DEVELOPER

@AzureBarry

[www.azurebarry.com](http://www.azurebarry.com)



# Introduction



## Azure Cognitive Services

- Landscape
- Catalogue
- SLA
- Pricing
- Scaling

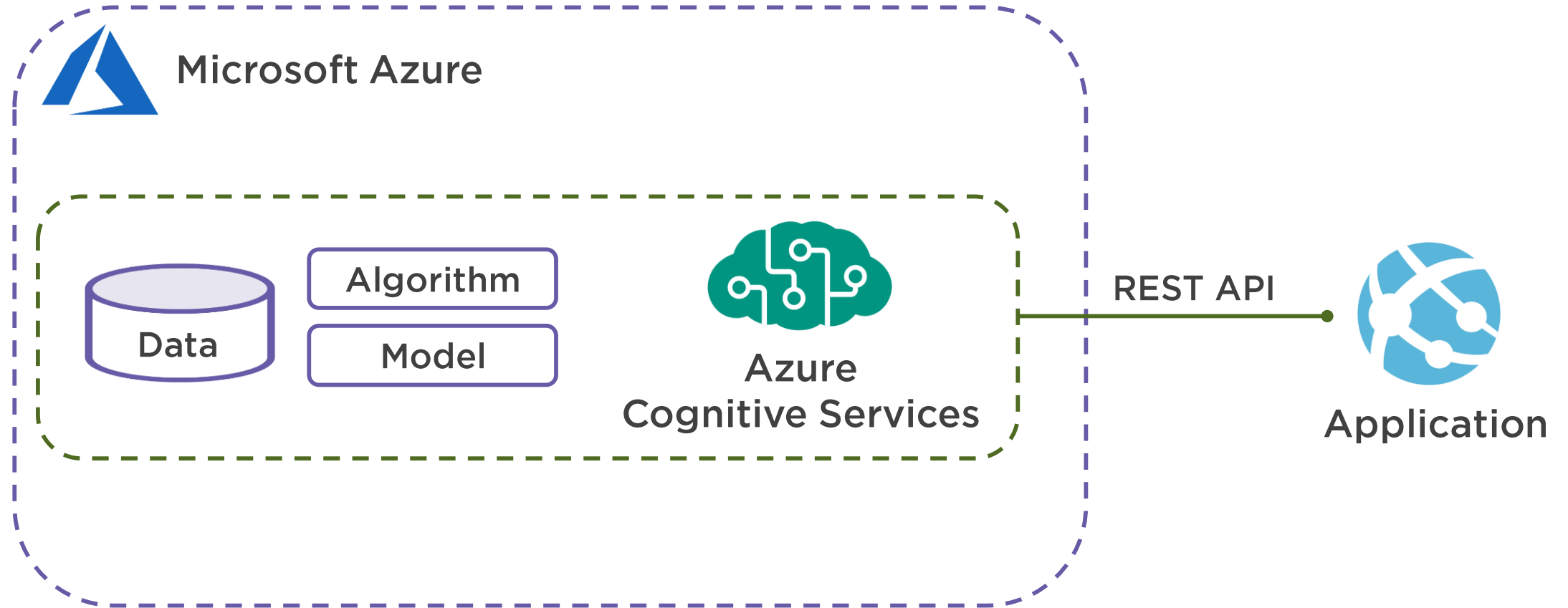


# The Cognitive Services Landscape

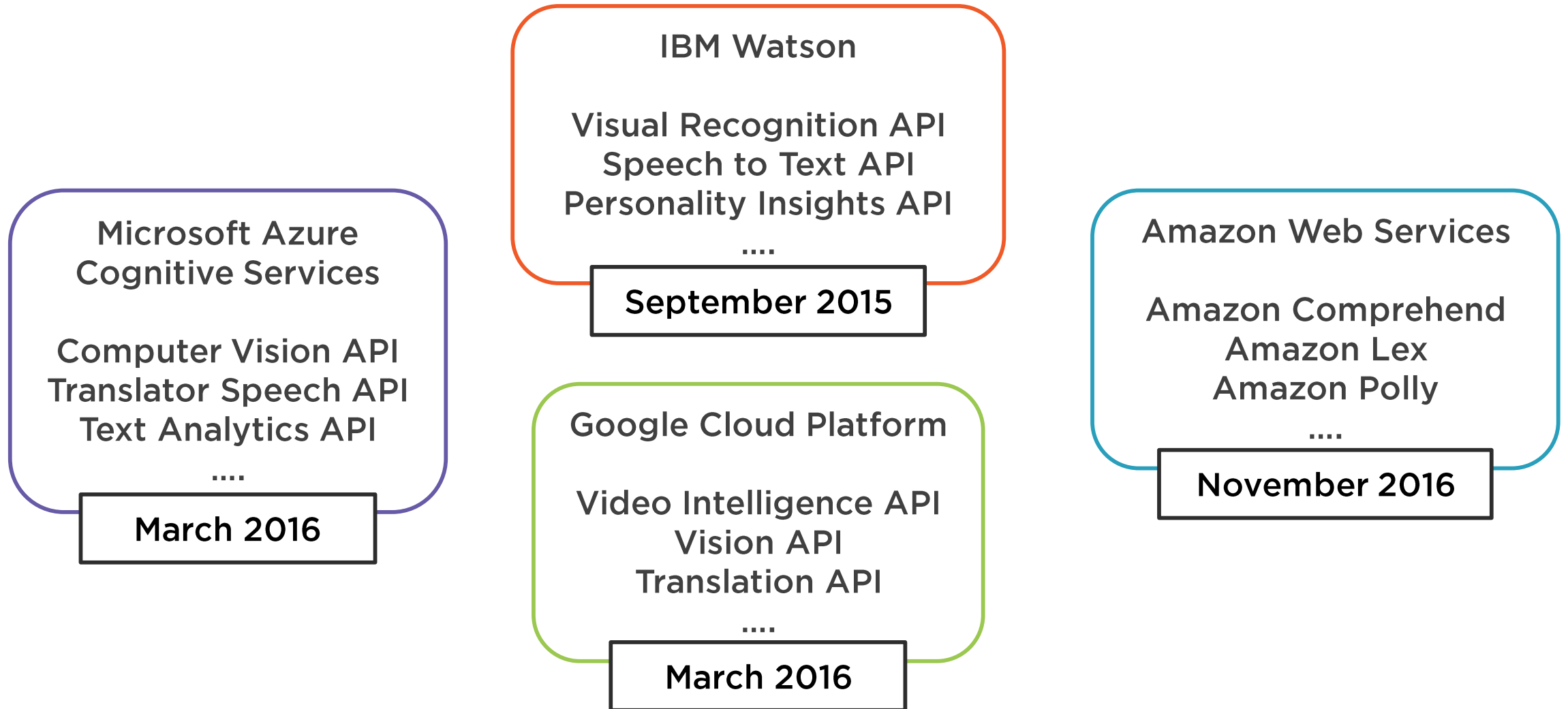
---



# Cognitive Services Make Things Easy



# The Cognitive Services Landscape



# Cognitive Services Catalogue

---



# Cognitive Services Catalogue

Vision	Speech	Language	Knowledge	Search
Custom Vision	Custom Speech	Language Understanding	Custom Decision	Custom Search
<ul style="list-style-type: none"><li>• Computer Vision</li><li>• Content Moderator</li><li>• Face</li><li>• Emotion</li><li>• Video Indexer</li></ul>	<ul style="list-style-type: none"><li>• Translator Speech</li><li>• Bing Speech</li><li>• Speaker Recognition</li></ul>	<ul style="list-style-type: none"><li>• Bing Spell Check</li><li>• Web Language Model</li><li>• Text Analytics</li><li>• Translator Text</li><li>• Linguistic Analysis</li></ul>	<ul style="list-style-type: none"><li>• Recommendations</li><li>• Knowledge Exploration</li><li>• Entity Linking Intelligence</li><li>• Academic Knowledge</li><li>• QnA Maker</li></ul>	<ul style="list-style-type: none"><li>• Autosuggest</li><li>• News Search</li><li>• Web Search</li><li>• Entity Search</li><li>• Image Search</li><li>• Video Search</li></ul>
Cognitive Services Labs				
<ul style="list-style-type: none"><li>• Project Prague</li><li>• Project Wollongong</li></ul>		<ul style="list-style-type: none"><li>• Project Abu Dhabi</li><li>• Project Nanjing</li></ul>	<ul style="list-style-type: none"><li>• Project Johannesburg</li><li>• Project Cuzco</li></ul>	

# Emotion API Example

## Request

```
{ "url": "http://example.com/picture.jpg" }
```



## Response

```
[ {  
  "faceRectangle": {  
    "left": 68,  
    "top": 97,  
    "width": 64,  
    "height": 97  
  },  
  "scores": {  
    "anger": 0.00300731952,  
    "contempt": 5.14648448E-08,  
    "disgust": 9.180124E-06,  
    "fear": 0.0001912825,  
    "happiness": 0.9875571,  
    "neutral": 0.0009861537,  
    "sadness": 1.889955E-05,  
    "surprise": 0.008229999  
  }  
}]
```



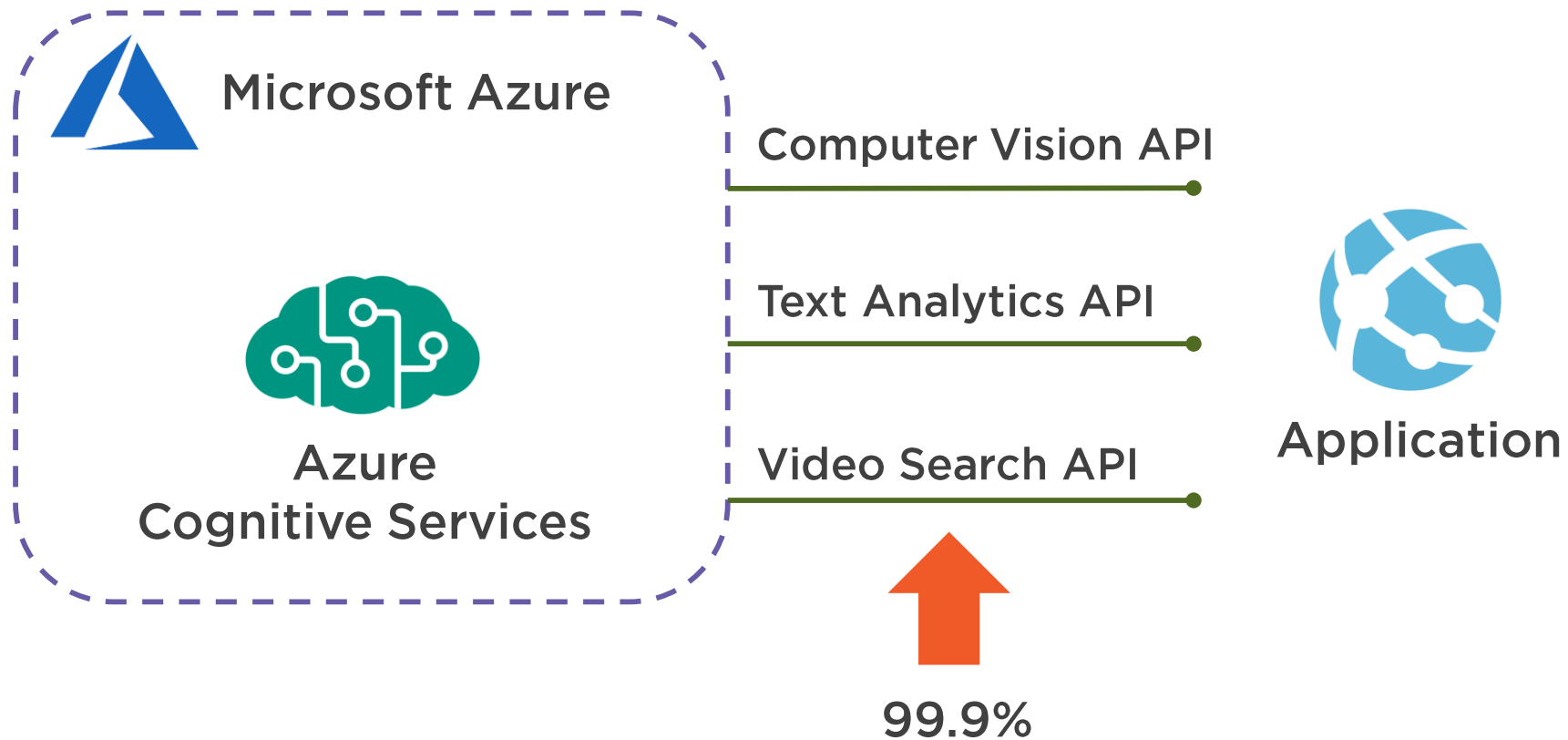


# Cognitive Services SLA, Pricing, and Scaling

---



# Cognitive Services SLA



# Cognitive Services Pricing

## Free

20 calls / min  
5K calls / month

## Standard Per amount of calls

10 calls / sec  
€0.085 / 1,000 calls

## Standard Per month

100K calls / month  
€0.50 / 1K  
Overage Calls

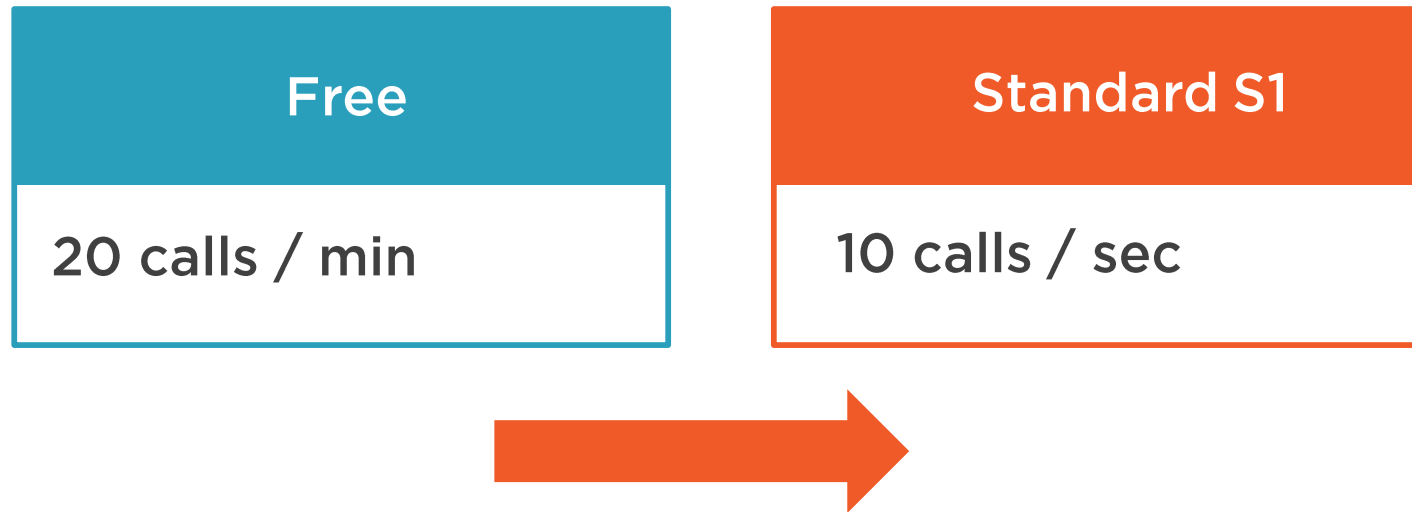


# Cognitive Services Pricing

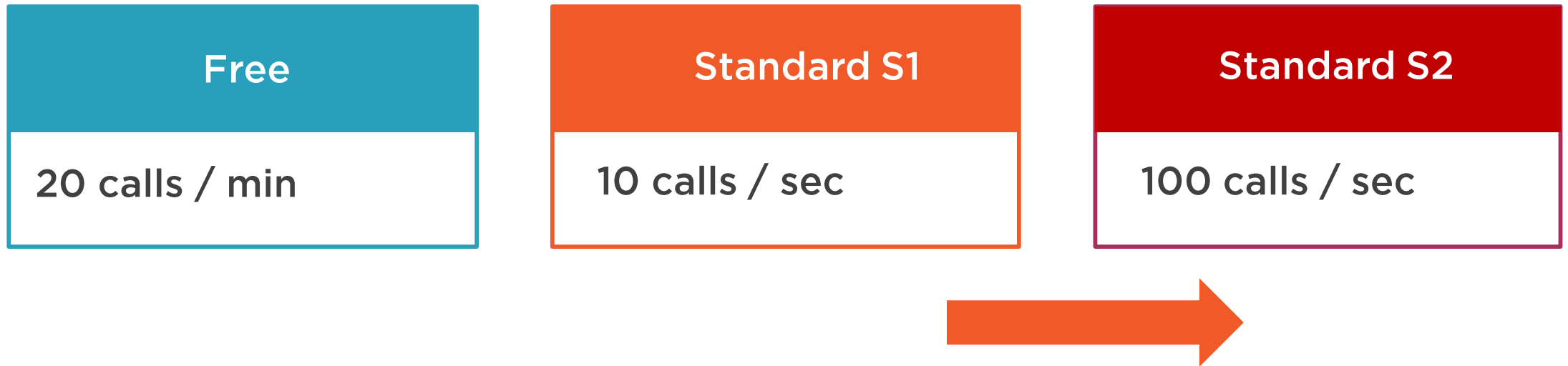
Free	Standard Per amount of calls	Standard Per month
20 calls / min 5K calls / month	10 cents / call €0.015 / 1,000 calls	100K calls / month €0.50 / 1K Overage Calls



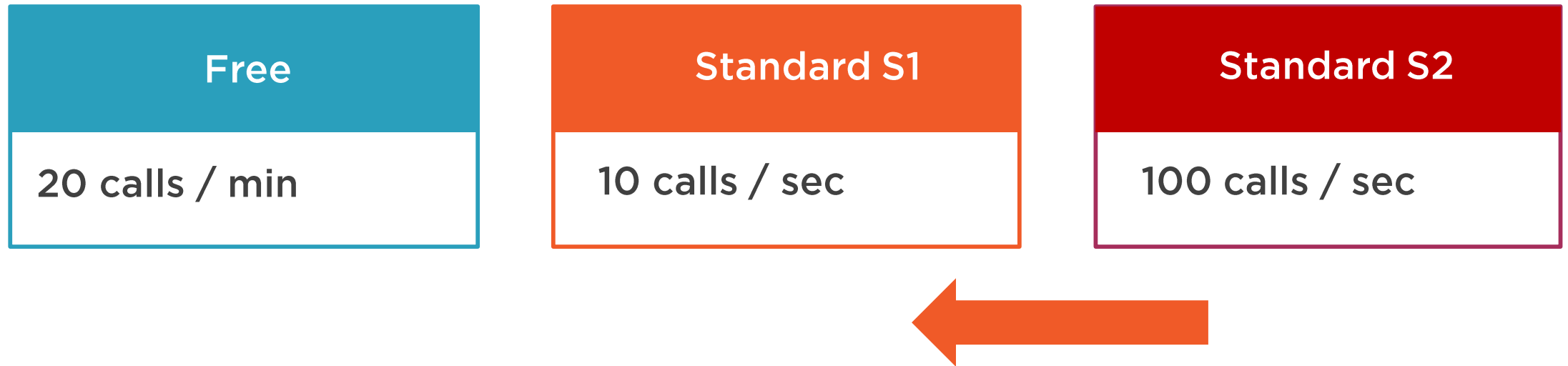
# Cognitive Services Scaling



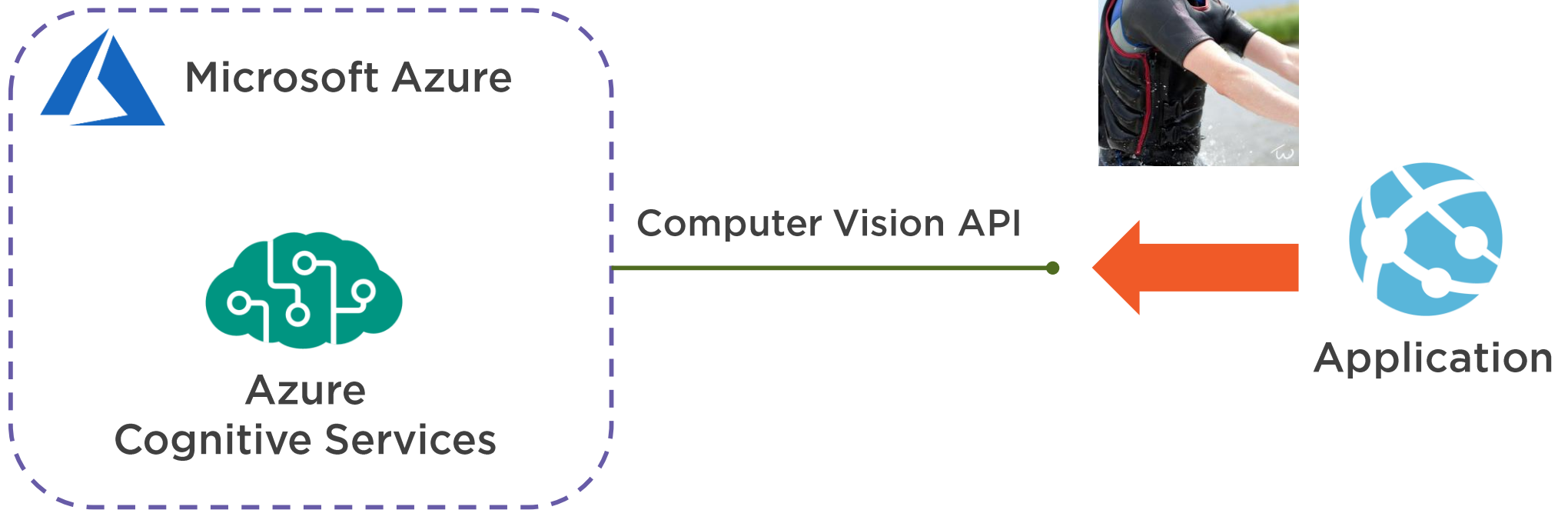
# Cognitive Services Scaling



# Cognitive Services Scaling



# Data in Cognitive Services





# Data in Cognitive Services

☐ \* I confirm I have read and understood the notice below.

Microsoft will use data you send to the Cognitive Services to improve Microsoft products and services. Where you send personal data to the Cognitive Services, you are responsible for obtaining sufficient consent from the data subjects. The General Privacy and Security Terms in the Online Services Terms do not apply to the Cognitive Services. Please refer to the Microsoft Cognitive Services section in the [Online Services Terms](#) for details. Microsoft offers policy controls that may be used to [disable new Cognitive Services deployments](#).



# Things to Remember



## Many vendors that offer Cognitive Services

- Field is relatively new

## 20+ Azure Cognitive Services

- Predefined data and model
- Custom data and model
- Predefined algorithm

**SLA of 99.9%**

**Different pricing for each API**

**Manually scale between pricing tiers**

