



Integration in einer serverlosen Welt

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Mohammed Brückner // "All views are my own"



Präfix: Schwierige Beziehung

Die anstrengende Geschichte der IT-
Wertschöpfung

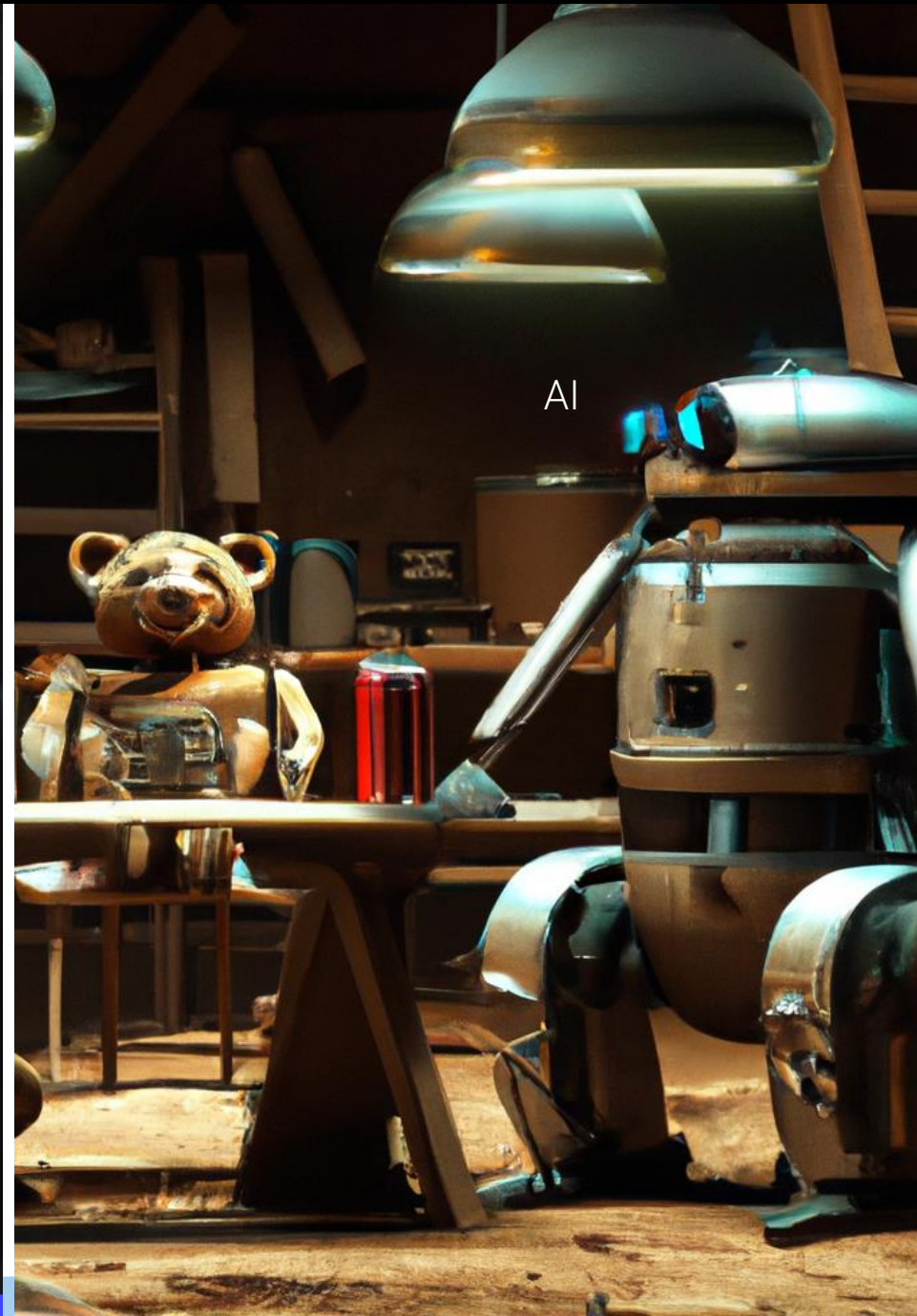




“Business” Vertreter

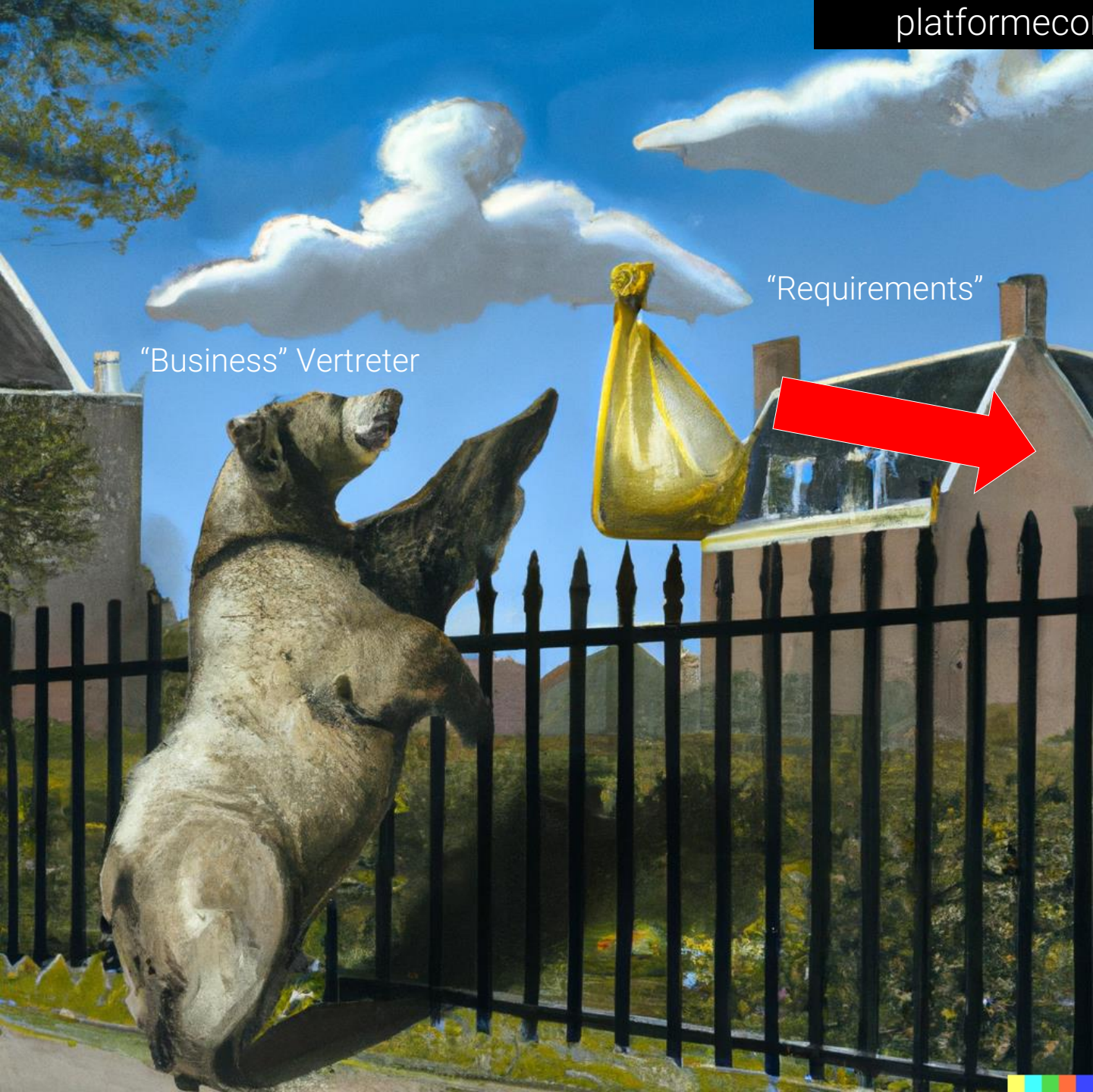
“Projektmanager”

IT “Delivery Partner”



AI





“Business” Vertreter

“Requirements”

Frustrierte Entwickler



Frustrierter CIO



GOODBYE, WATERFALL!

WELCOME, AGILE!

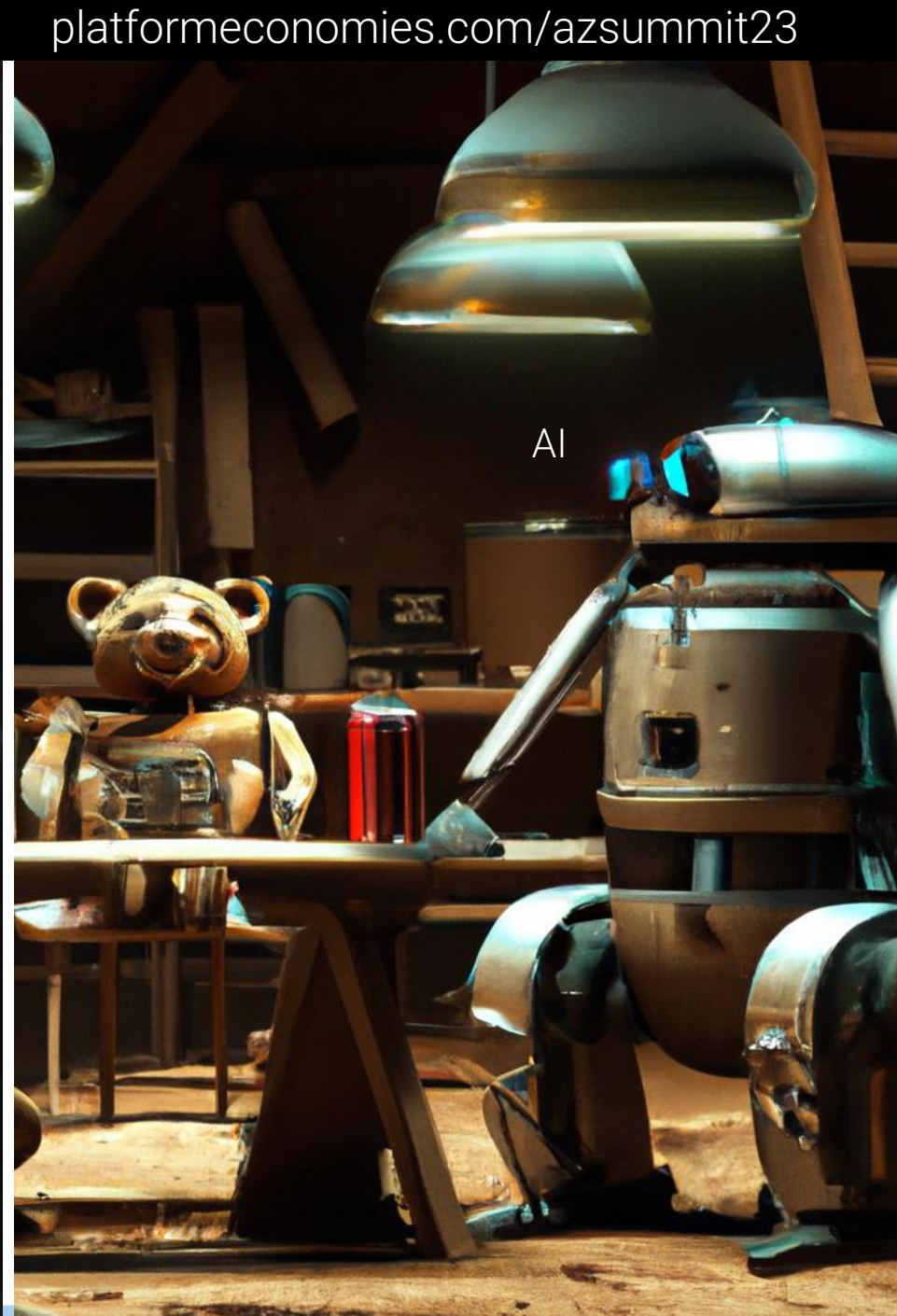
“Business” Vertreter

“IT Product Owner”

“Scrum Master”



AI



“Business” Vertreter

“IT Product Owner”

“Scrum Master”

Näher am Business, Chance
zu “partizipieren” (“seat at the table”)

Was ist mit der Teilnahme an der Erzeugung von IT in die andere Richtung?

“Business” Vertreter

“IT Product Owner”

“Scrum Master”

Näher am Business, Chance zu “partizipieren” (“seat at the table”)

WELCOME, LOW-CODE!



BEST RUN COMPANIES RUN ON EXCEL



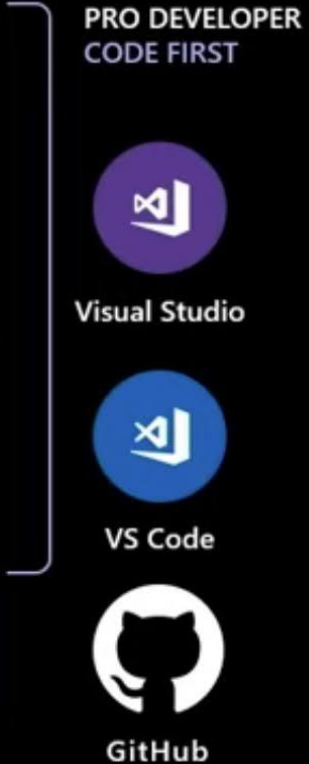
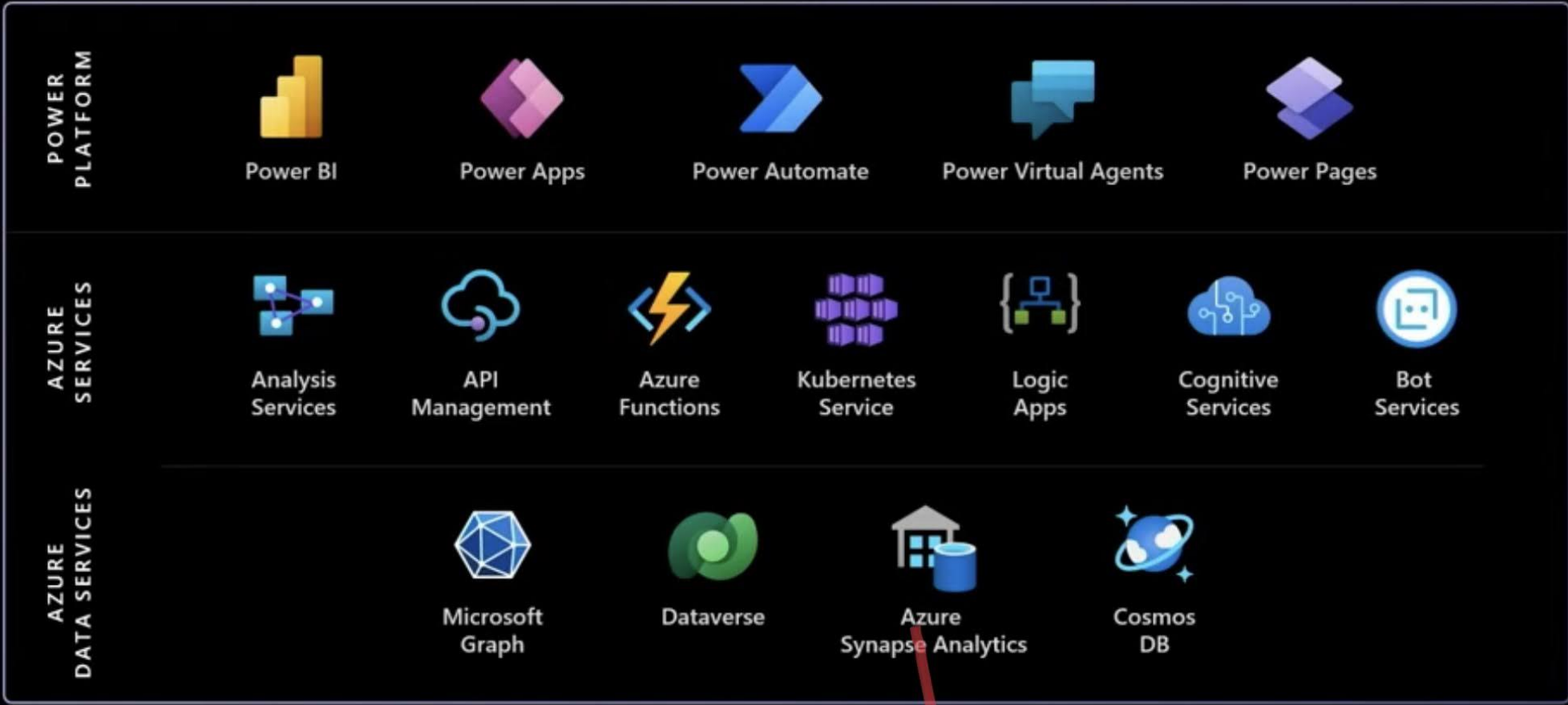
What are benefits of combining low-code and pro-code?

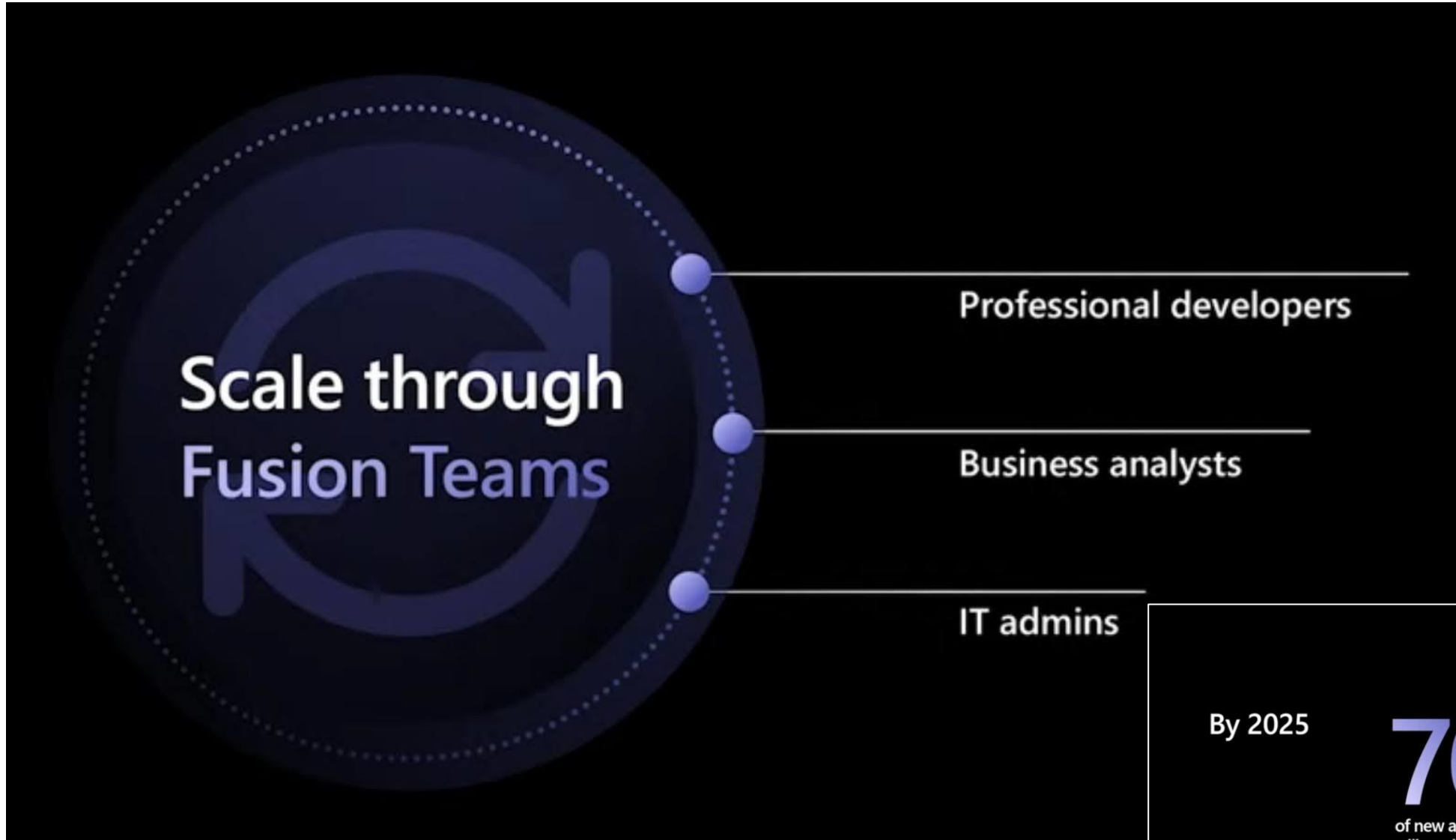
Some benefits of combining low-code and pro-code include:

- **Faster development:** Low-code platforms can be used to quickly prototype and build the basic structure of an application, while pro-code can be used to add custom functionality and fine-tune the application.
- **Improved collaboration:** Low-code platforms can be used by non-technical team members, such as business analysts, to contribute to the development process. This can improve collaboration and communication within the team.^{[0][2]}
- **Increased flexibility:** Combining low-code and pro-code allows for a balance between rapid development and customizability. This can be useful in situations where the requirements of the project are not fully known or are subject to change.^[0]
- **Better performance:** Pro-code can be used to optimize the performance of an application, which can be especially important for applications with high traffic or complex data processing requirements.

Overall, combining low-code and pro-code can provide a more efficient and flexible approach to application development.

Pro Code + Low-Code = No Limits





By 2025

70%

of new applications developed by enterprises will use low-code or no-code technologies

COMPARE: [#LOWCODEFEBRUARY](#)

Microsoft ist „Leader“ im „Magic Quadrant for Enterprise Integration as a Service 2023“

5 Reasons Enterprises choose Azure Integration Services

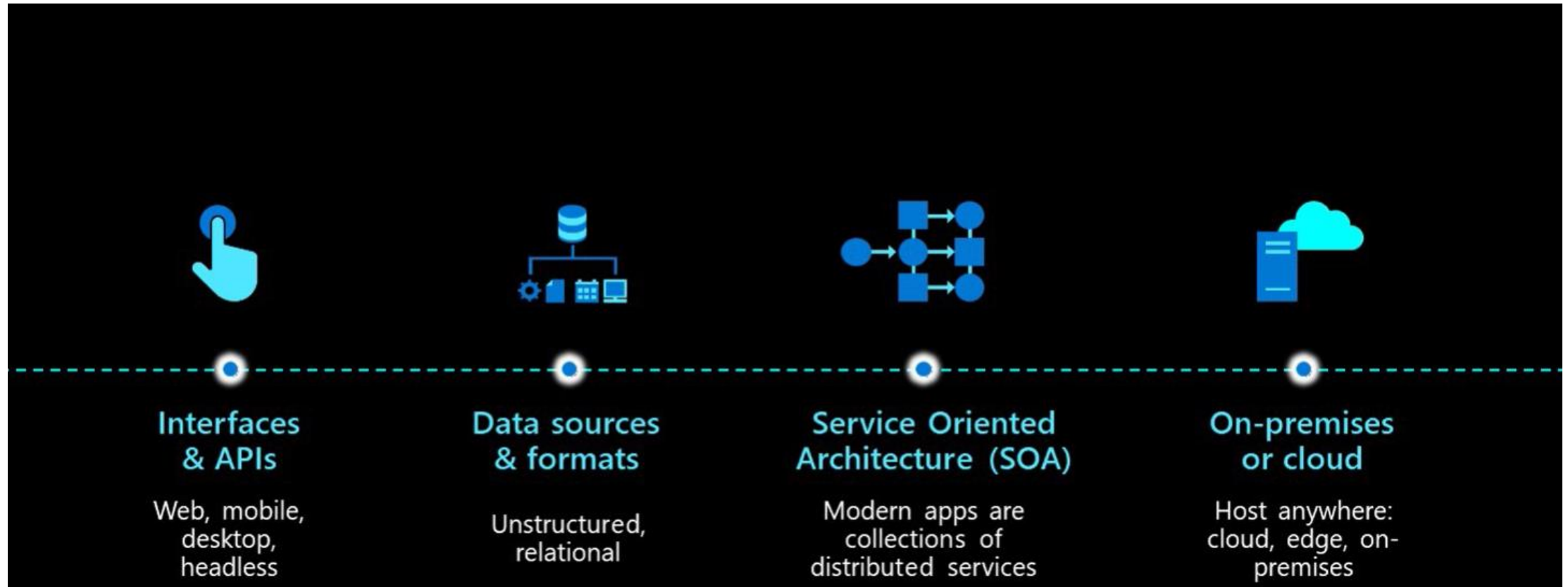
Continuous innovation

Globally managed offerings

Strong security and compliance

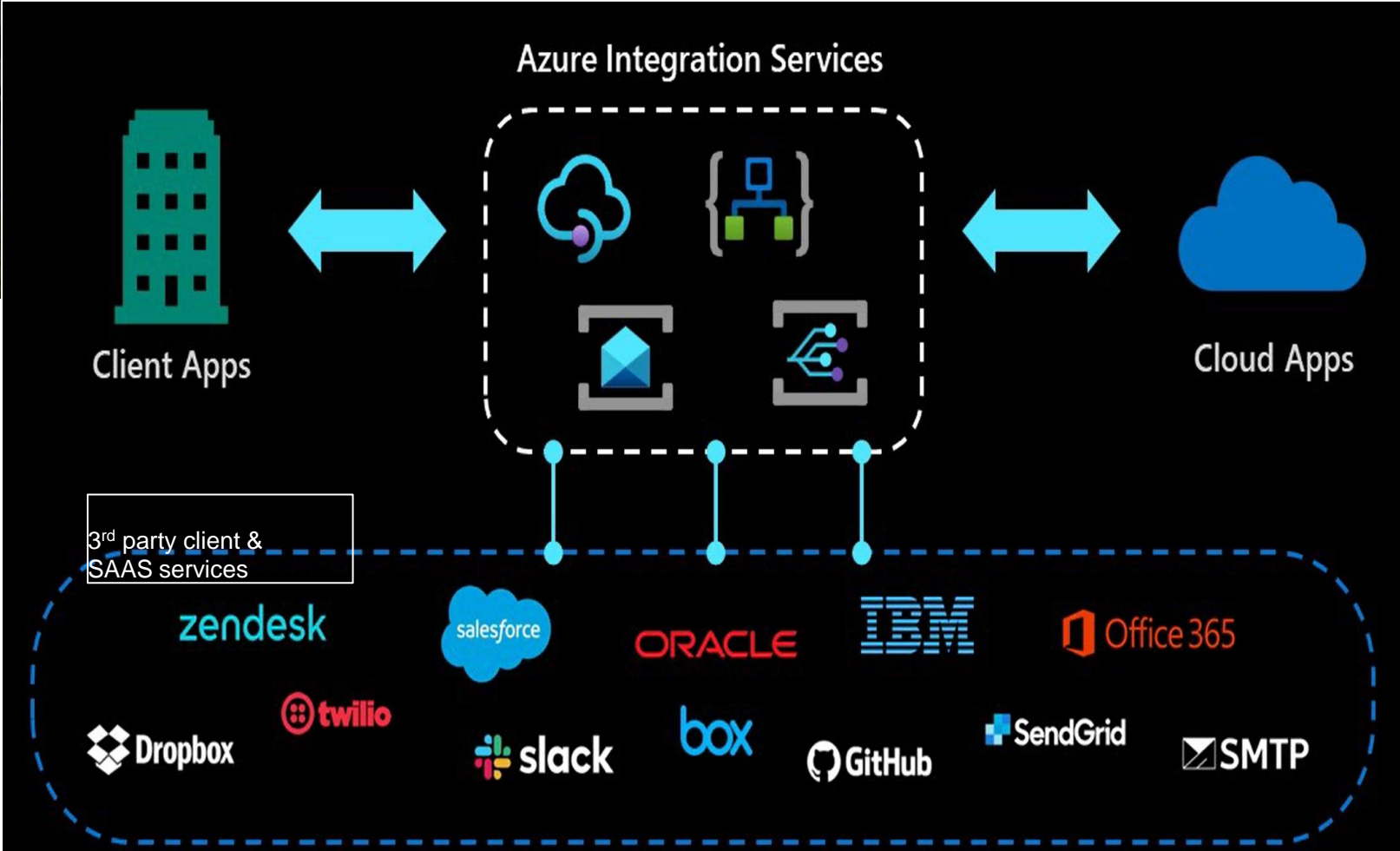
Flexible pricing

Supports both citizen and professional developers



COMPARE: [#LOWCODEFEBRUARY](#)

900+ Data connectors



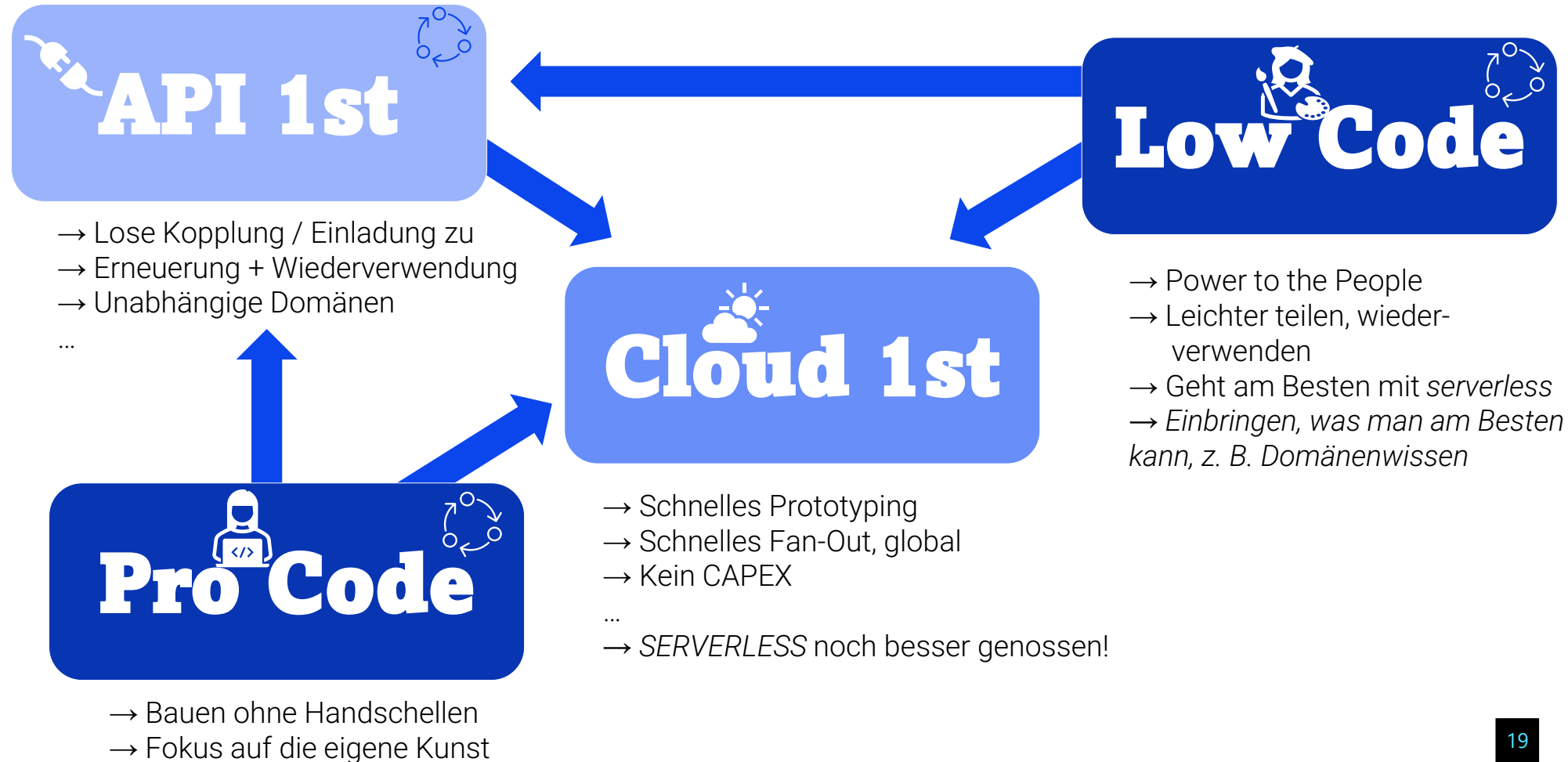
COMPARE: [#LOWCODEFEBRUARY](#)

Die "Secret Sauce" für den Erfolg von Fusion Teams

Überzeugung:

Das Operating Model muss weg von zentralisierten "Silo" Teams hin zu **autonomen, interdisziplinären zweckgebundenen Teams**.

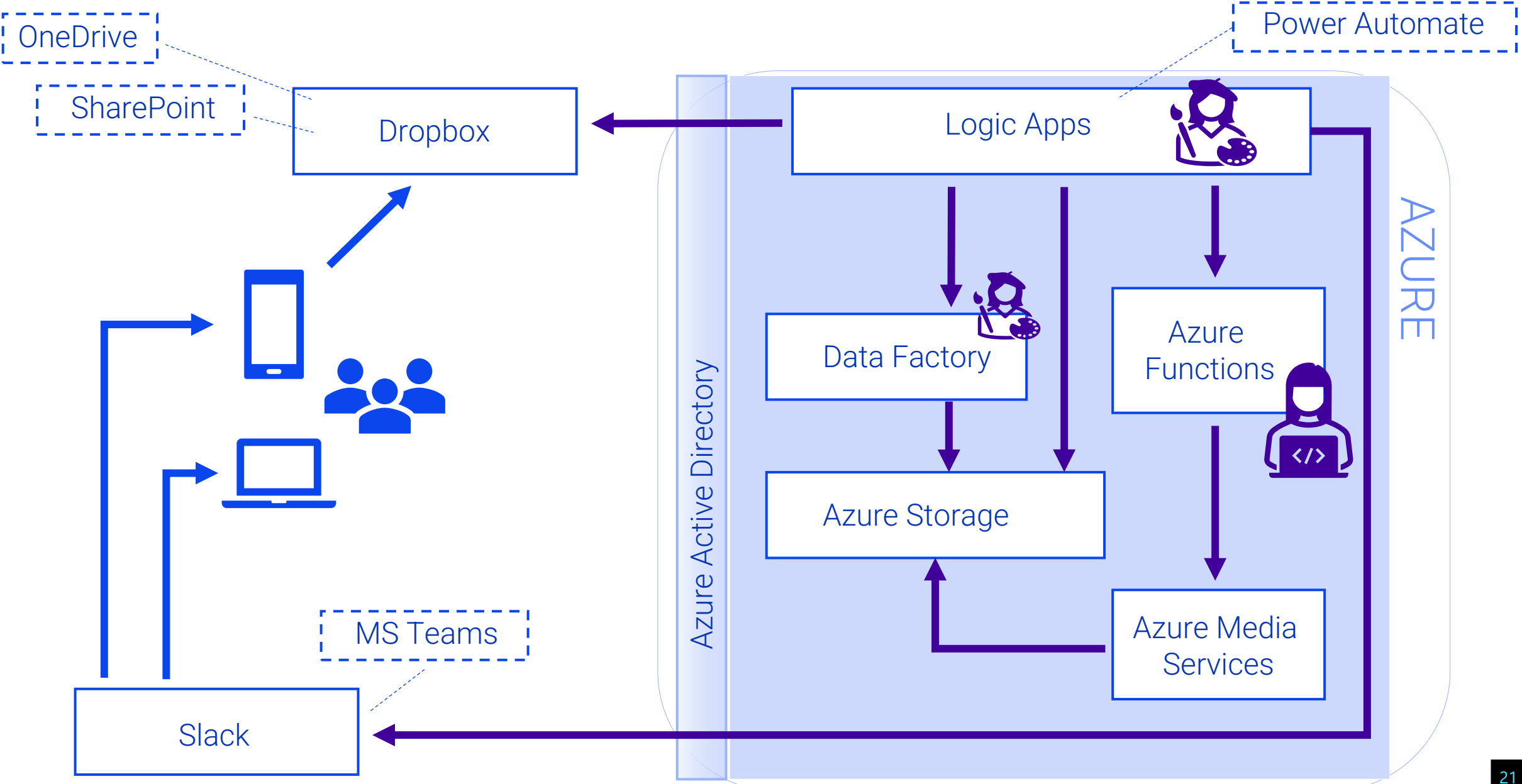
Mit Fokus **auf Service Domänen**, die fortlaufende **Produktlebenszyklen** unterstützen. Statt Projektlebenszyklen.



Endlich zum spaßigen Teil

EXAMPLE SCENARIO
WALK-THROUGH



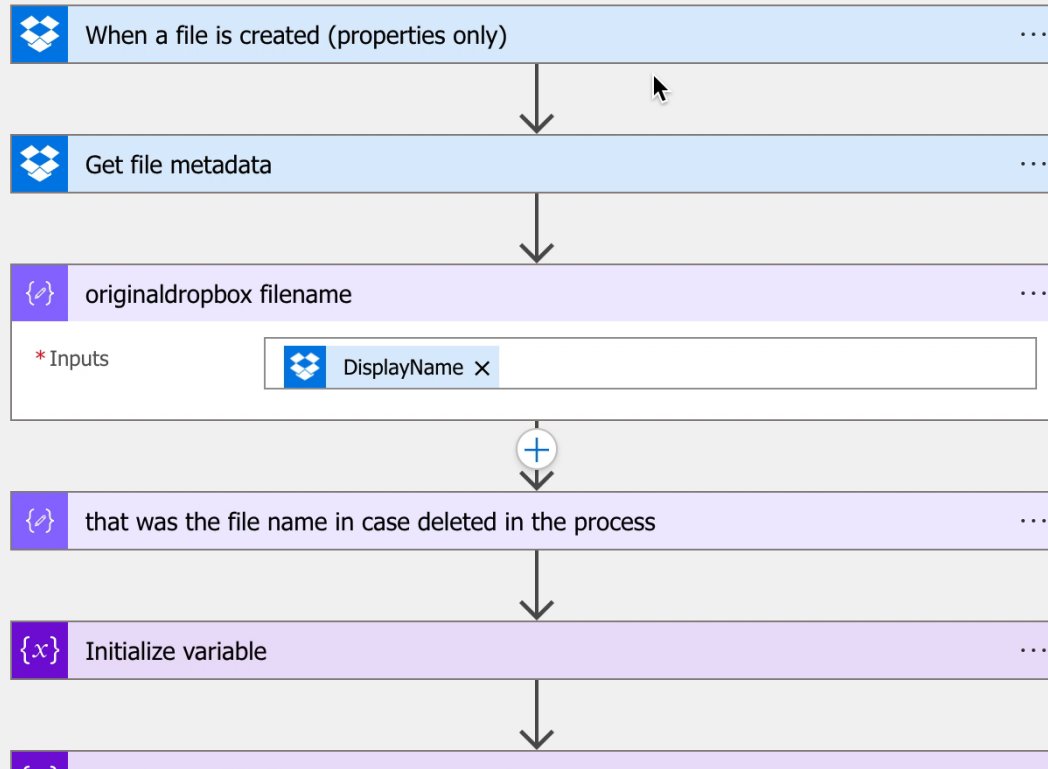


Logic Apps Designer



Save Discard Run Trigger Designer Code view Parameters Templates Connectors Help Info

100%



obtain a valid access token

Parse JSON



Create a pipeline run

DataFactory will use application/octet-stream as content-type when copying over files to BlobStorage, which means images etc will not shown in browser but downloaded -as of 2022 it seems there is no way to set the content-type

* Subscription [redacted]

* Resource Group VSE_df

* Data Factory Name vsemodfactory

* Data Factory Pipeline Name pipeline1

```
parameters {
  "a_token": "{ access_token }",
  "container": "pubtmp",
  "file_name": "{ DisplayName }",
  "modified_file_name": "{ Outputs }",
  "subfolder": "large4publish"
}
```

Add new parameter



do plenty of stuff to convert the video file

{x} Set variable 2

⚡ kickofftransformationams

Request Body

```
{  
  "filesasuri": "Web Url x",  
  "origfilename": "Outputs x"  
}
```

Add new parameter

{ } Parse JSON 2




Data Factory | Validate all | Publish all | Preview experience | Off

Factory Resources | Filter resources by name | Pipelines (4) | Datasets (5) | Data flows (0) | Power Query (0)

Activities | Search activities | Move & transform | Synapse | Azure Data Explorer | Azure Function | Batch Service | Databricks | Data Lake Analytics | General | HDInsight | Iteration & conditionals | Machine Learning | Power Query

pipeline1 | Copy data | get data from dropbox

Source dataset * | dropboxdata | Request method * | POST | Additional headers | Authorization: Bearer @{pipeline().par...}



EXPLORER

GEÖFFNETE EDITOREN

- VSSTUDIOGETGROOVY
 - .vscode
 - azure-functions-core-tools
 - blobshuffler
 - deleteamsassets
 - dist
 - kickofftransformationams
 - blobStorage.ts
 - encodingJobHelpers.ts
 - function.json
 - heavyduty.ts
 - index.ts**
 - sample.dat
 - transformFactory.ts
 - node_modules
 - .funcignore
 - .gitignore
 - host.json
 - local.settings.json
 - package-lock.json
 - package.json
 - tsconfig.json

GLIEDERUNG

index.ts — vsstudiogetgroovy

kickofftransformationams > TS index.ts > httpTrigger


```

1  import {
2      AzureMediaServices, KnownAacAudioProfile, KnownH264Complexity,
3      StandardEncoderPreset, AssetContainerPermission
4  } from '@azure/arm-mediaservices';
5  import { AzureFunction, Context, HttpRequest } from "@azure/functions";
6  import { ManagedIdentityCredential } from "@azure/identity";
7  import { v4 as uuidv4 } from 'uuid';
8  import * as jobHelper from "./encodingJobHelpers"; //a typescript (class) file named like
9  import * as factory from "./transformFactory"; //a typescript (class) file named like thi
10 import * as url from 'whatwg-url';
11
12 // This is the main Media Services client object
13 let mediaServicesClient: AzureMediaServices;
14 //Talking Azure Subscription
15 const subscriptionId: string = ████████████████████████████████████████
16 //RG in which the Azure Media Services Account resides
17 const resourceGroup: string = "vsmediaservcs";
18 //Azure Media Services Account
19 const accountName: string = "vsemomediaservcs";
20 let inputFile: string;
21 // This is SAS signed URL, valid only for a determined time at creation
22 //let inputUrl: string = "https://propmsmaterial.blob.core.windows.net/pubtmp/schneekram
23 let inputUrl: string;
                
```

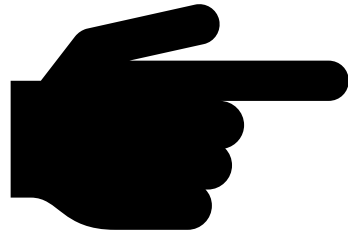
PROBLEME TERMINAL AZURE AUSGABE DEBUGGING-KONSOLE

zsh + - □ 🗑 ^ ×

moes@Moooorrrs-MacBook-Pro vsstudiogetgroovy %



Mehr Details gefällig?



[Using Logic Apps to orchestrate a complex video processing \(...\)](#)

THE GLUE MAKES IT STICK

APIS  CONNECTORS  WEBHOOKS  MESSAGE QUEUES  EVENT MGMT

HTTP

* Method

* URI

Headers

Queries

Body

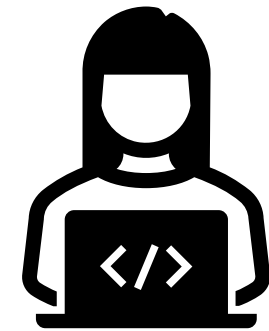
HTTP Webhook

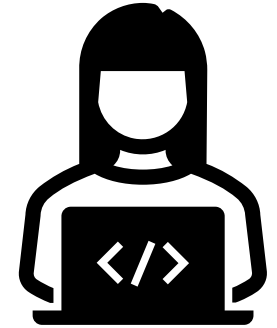
* Subscribe - Method

* Subscribe - URI

Subscribe - Body

Unsubscribe - Method



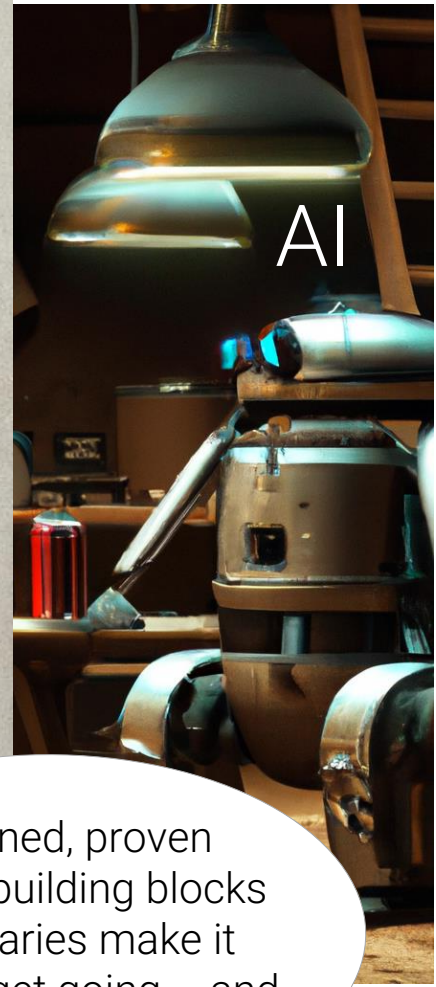




As a BIZ decision maker, I am still worried all the time.

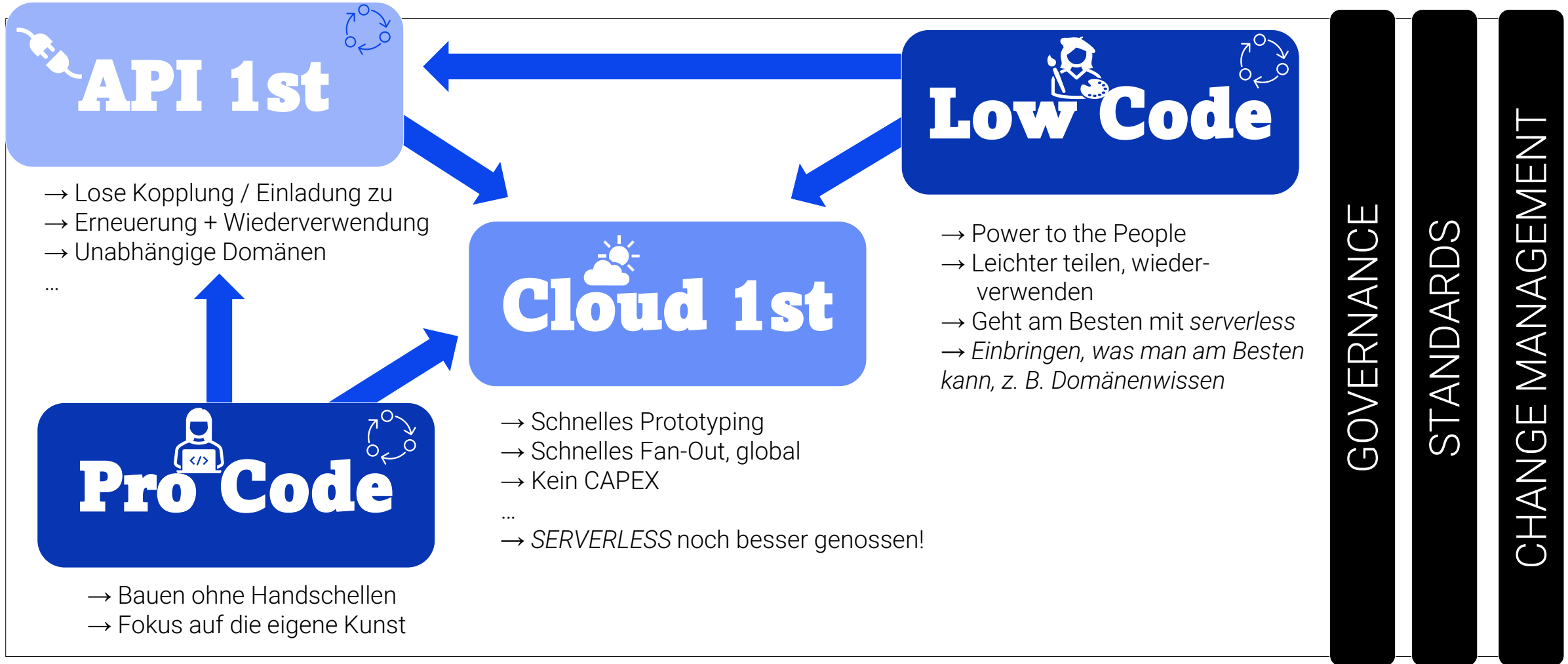
At least the cross-functional teams are complaining a lot less now.

Hardened, proven solution building blocks and libraries make it easier to get going – and safer, too!



DIE REALITÄT IST EIN
BISSCHEN KOMPLEXER

Die "Secret Sauce" für den Erfolg von Fusion Teams



OneDrive

SharePoint

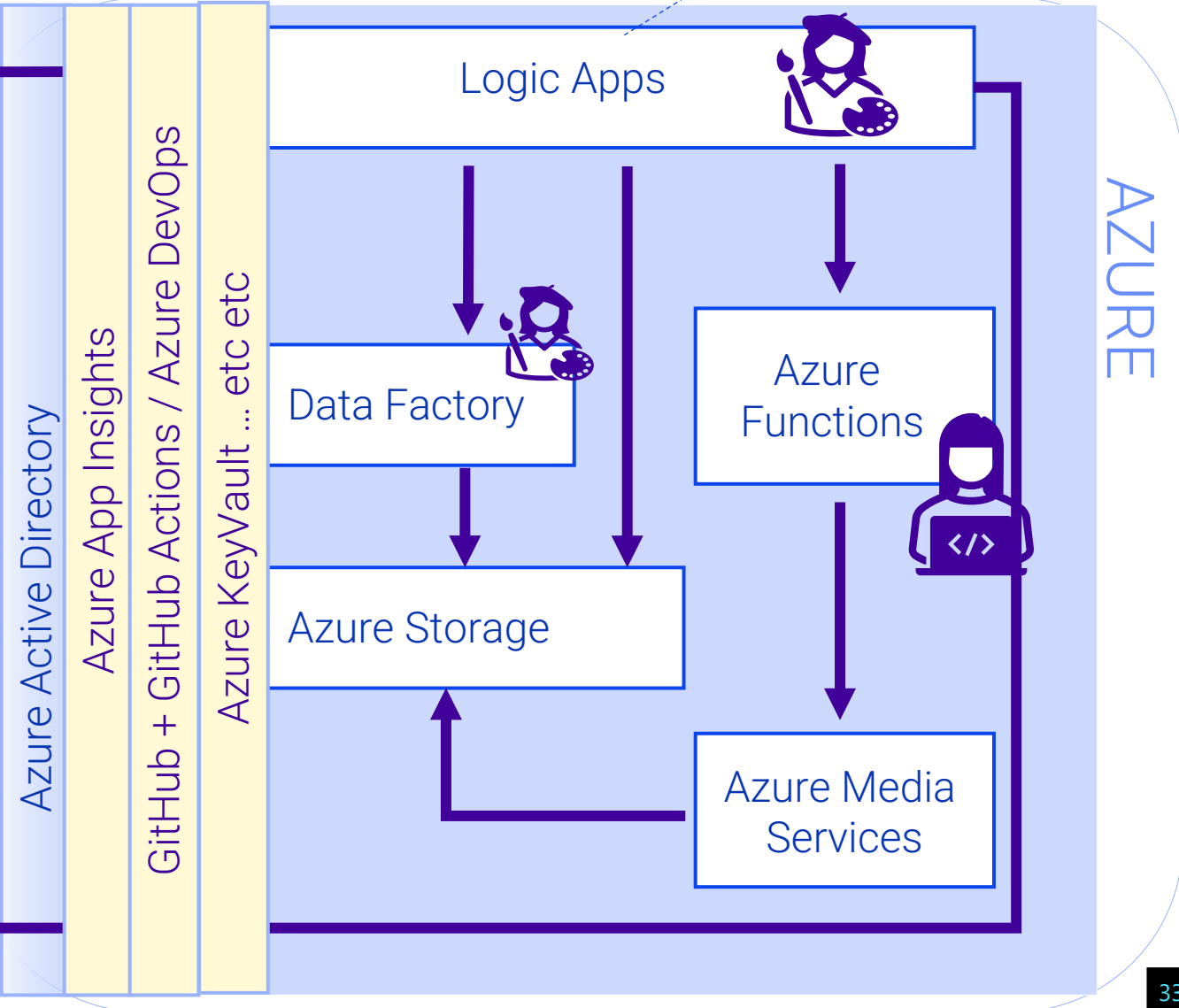
Power Automate

Dropbox



MS Teams

Slack



DIE MUSTER DER INTEGRATION SIND AUCH WICHTIG.

Sidecar, Circuit Breaker und viele mehr.

Ob Low-Code oder Pro-Code, Architekturentscheidungen haben IMMER eine große Auswirkung auf Kosten, Verlässlichkeit, Sicherheit usw... Aber das ist eine Geschichte für ein anderes Mal.

Die Präsentation mit ein paar Slides – **auch auf ENGLISCH!** - und Links mehr hier:

platformeconomies.com/azsummit23