Microsoft

M365 SUMMIT - MANCHESTER 2024
MICROSOFT CLOUD ENGINEERING

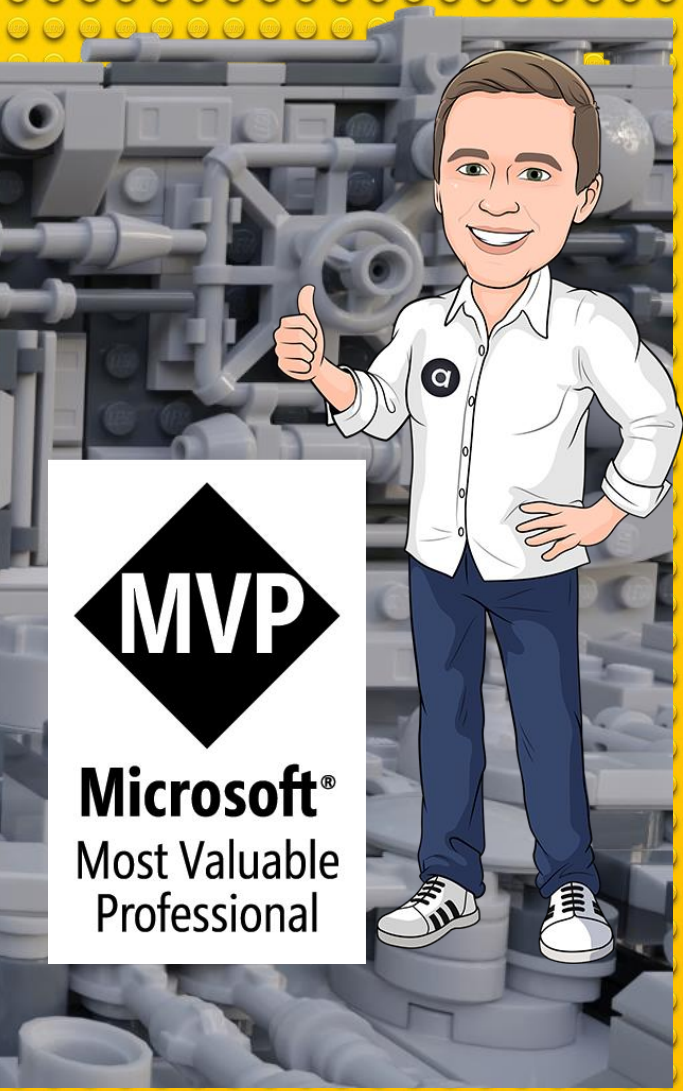
SEP 28TH, 2024

M365 SUMMIT MANCHESTER 2024

A.I., Cyber Security, Microsoft 365, Productivity, Azure,
DevOps, Power Platform, Dynamics 365,
Power BI, Project Management

Microsoft
MCCC SUMMIT
MANCHESTER
2024
28th September
Michael Seidl
MVP
PowerShell and MS Graph API Advanced, from Zero to Hero!
AZURE
CROSOFT 365
CYBER SECURITY
DATA
A.I.
D365
LOWCODE

Michael Seidl



- Microsoft MVP (since 2015)
- Automation Consultant (10+ Years)
- Founder, CEO | au2mator
  - Self-Service Portal for Microsoft Automation
- Blog
  - www.techguy.at | www.au2mator.com
- GitHub
  - github/seidlm | github/au2mator
- “Get Sh*t done in IT” - Podcast

AGENDA

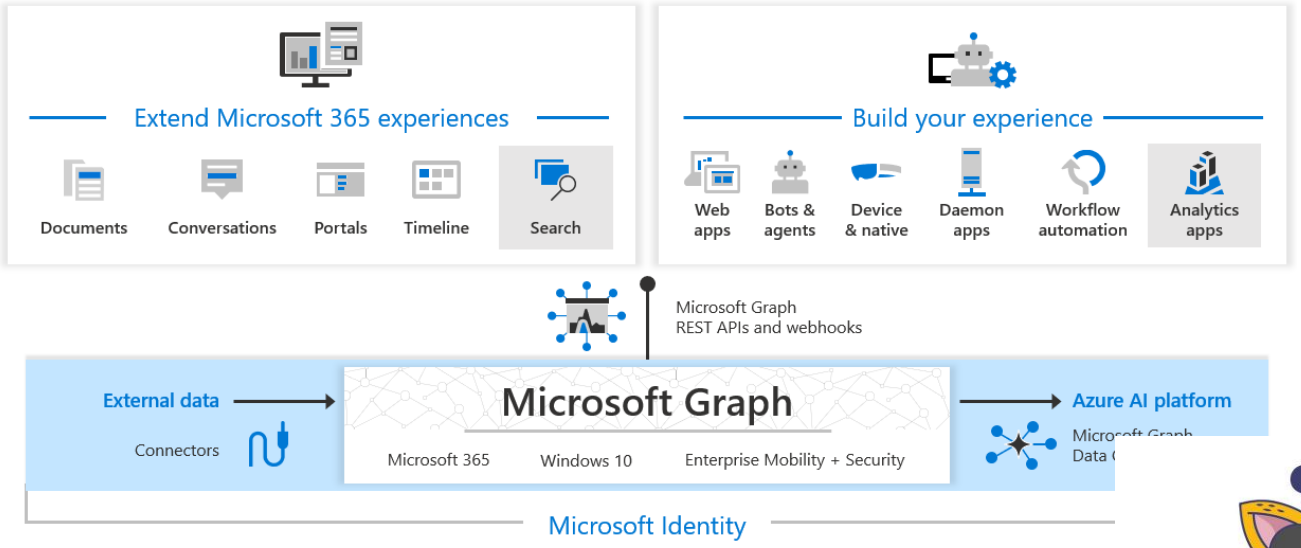
POWER COMMUNITY

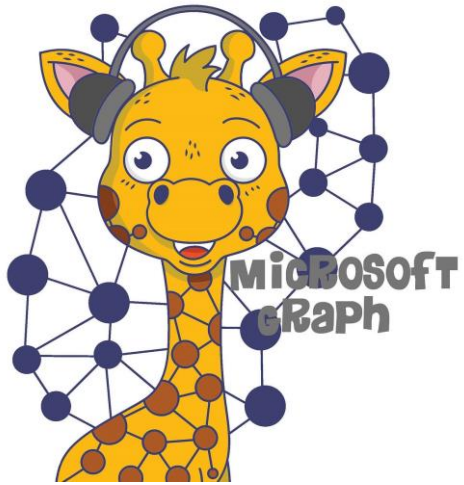
- ✓INTRO
- GRAPH API BASICS AND AUTHENTICATION
- PAGING
- FILTER / SEARCH
- SELECT
- BATCH
- END

ONE API to the Cloud

POWER COMMUNITY

Microsoft 365 Platform



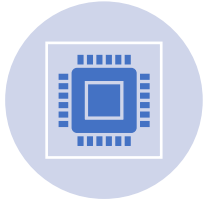


WHY use MS Graph API

POWER COMMUNITY

No PowerShell Module

OnPrem/Cloud



More Functionality over PS-Module (delay)

Easy language

Unlimited Platforms

One API to all Cloud Services (Future)

HOW to use MS Graph API

- REST Call, HTTPS, WEB URL
- https://graph.microsoft.com/v1.0/
  - Users | Groups | Teams | ToDo | Azure App …
  - GET, POST, PUT, PATCH, DELETE
- Graph Explorer
- JSON

HOW to Authenticate

- ✓ Azure APP Registration
  - ✓ Client Secret or Certificate
  - ✓ Delegate or Application Permission
- ✓ System / User - Assigned Identity

HOW to Authenticate

Delegate

- **Signed In User**
- **Effective permission**
- **User/Admin Consent**

Application

- **No User**
- **App Permissions only**
- **Admin Consent only**

TIME to be a GRAPH API HERO

POWER COMMUNITY

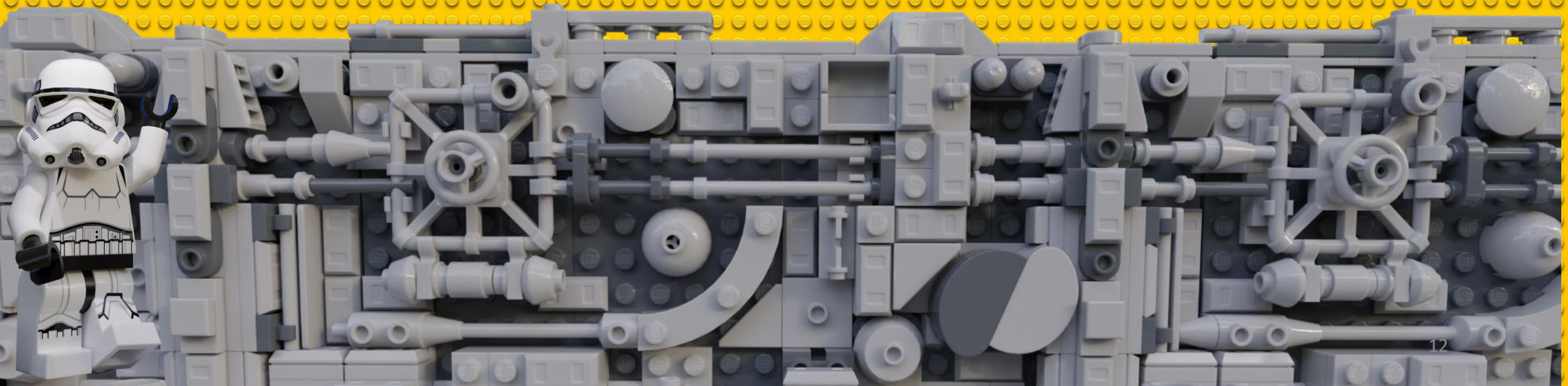
- ✓INTRO
- ✓GRAPH API BASICS AND AUTHENTICATION
- PAGING
- FILTER / SEARCH
- SELECT
- BATCH
- END

PAGING

- Subset of Results
- Performance and Load
- Implement Paging from the Beginning

POWER
COMMUNITY

DEMO

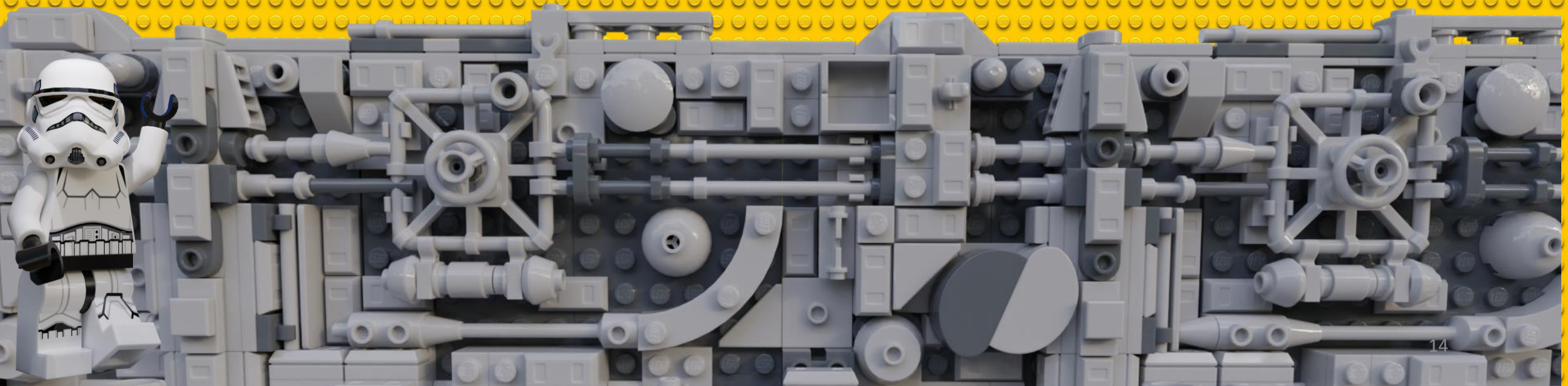


FILTER & SEARCH

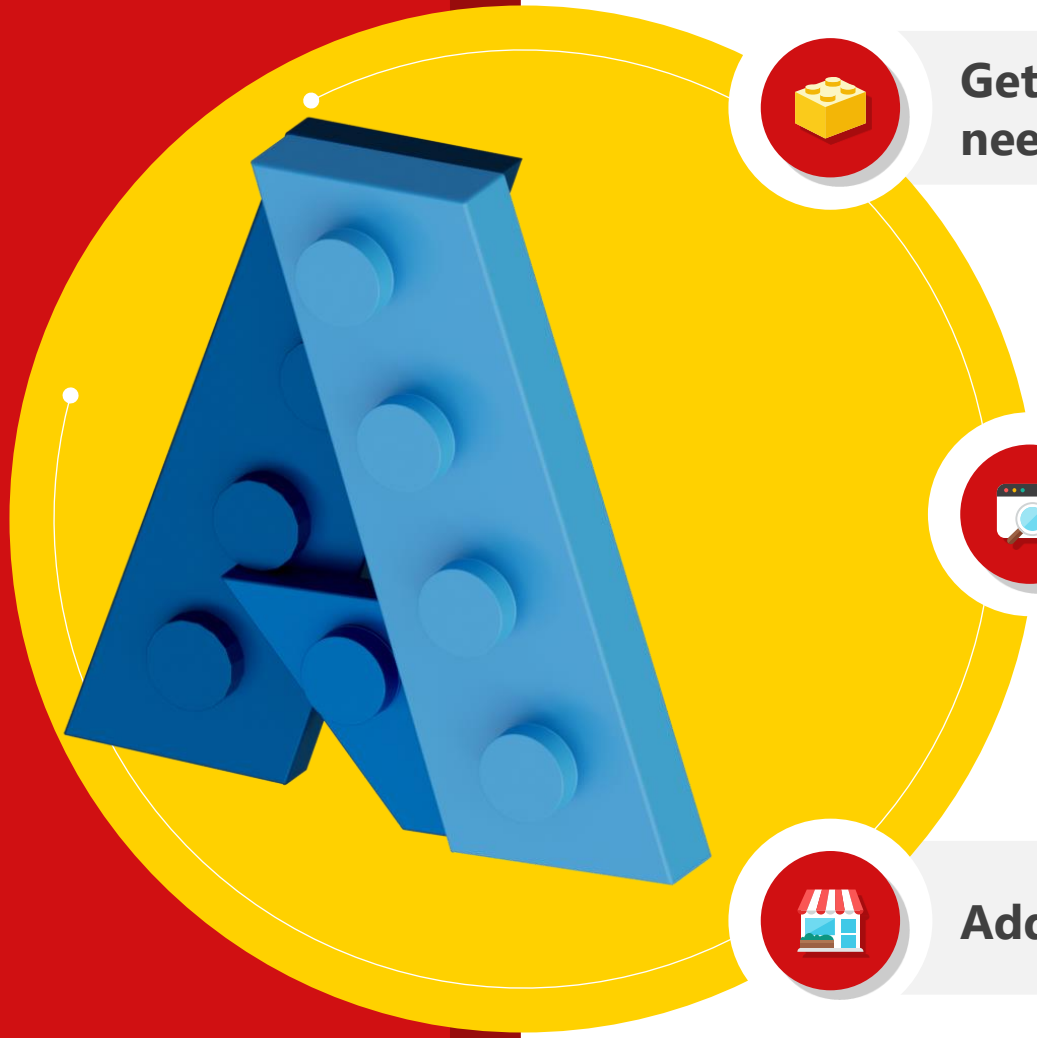
- FILTER or SEARCH
- SEARCH only for some Endpoints
  - Endpoints
    - Outlook: Mail or Event
    - SharePoint, OneDrive: driveitem, list, site, drive..
    - Person: mainly User Object
    - Graph Connector Content
    - Admin Search
  - More Properties at once
- FILTER
  - Know the property
  - All Endpoints

POWER
COMMUNITY

DEMO



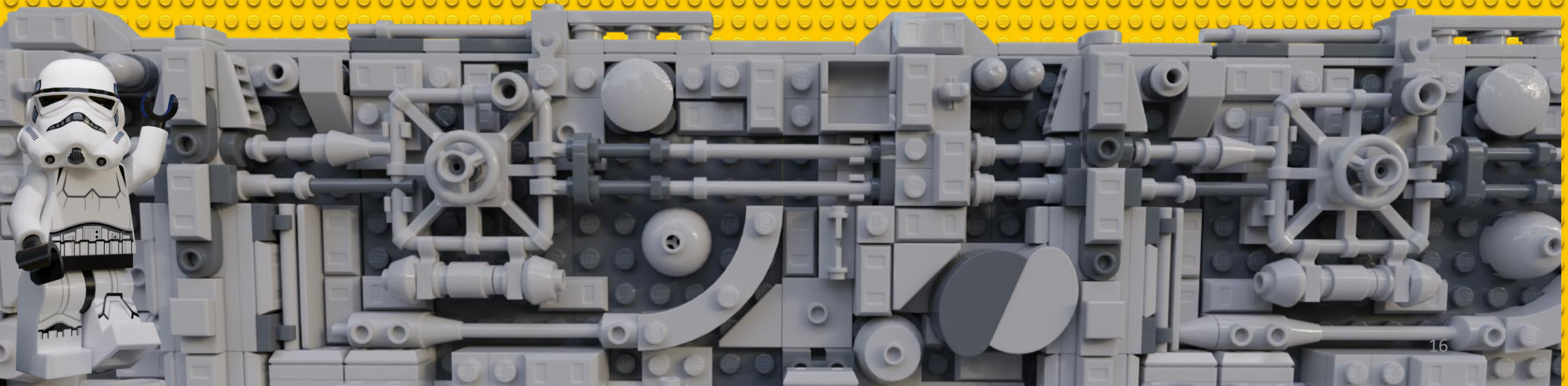
SELECT



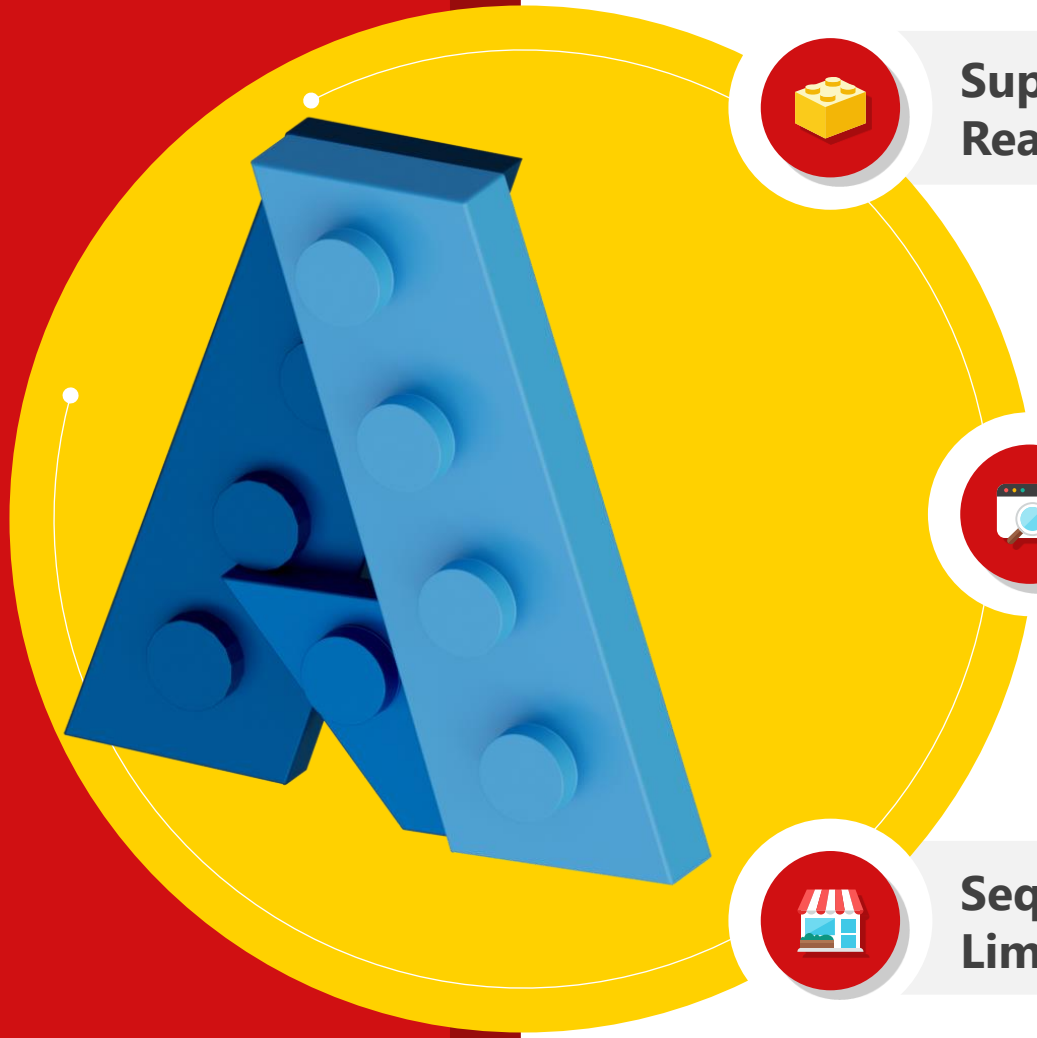
- Get what you want and need
- Performance and Load
- Additional Properties

POWER COMMUNITY

DEMO



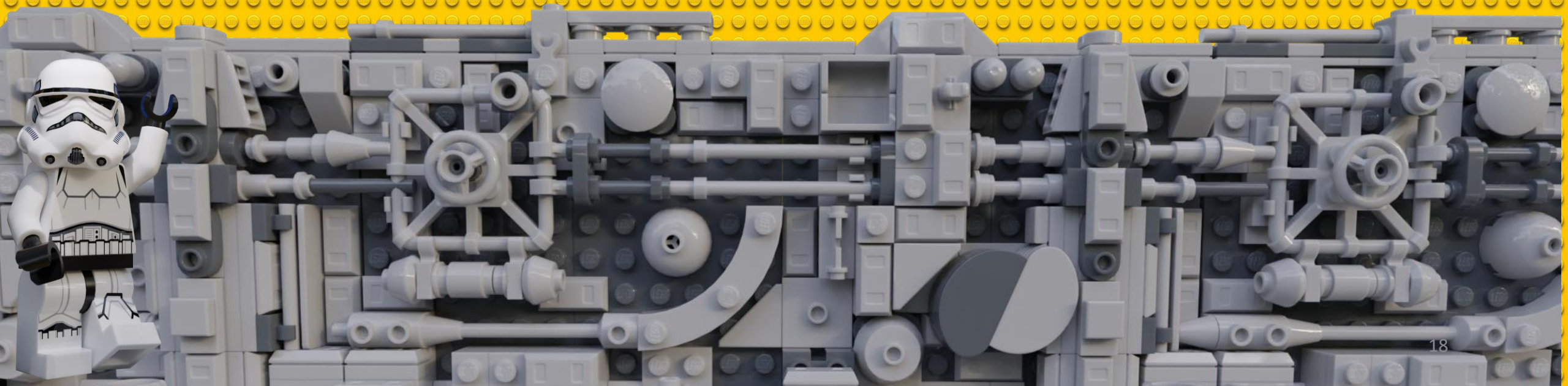
BATCH



- Superpower of Performance, Read and Write
- Buy 1, get 20
- Sequence, Throttling and Limits

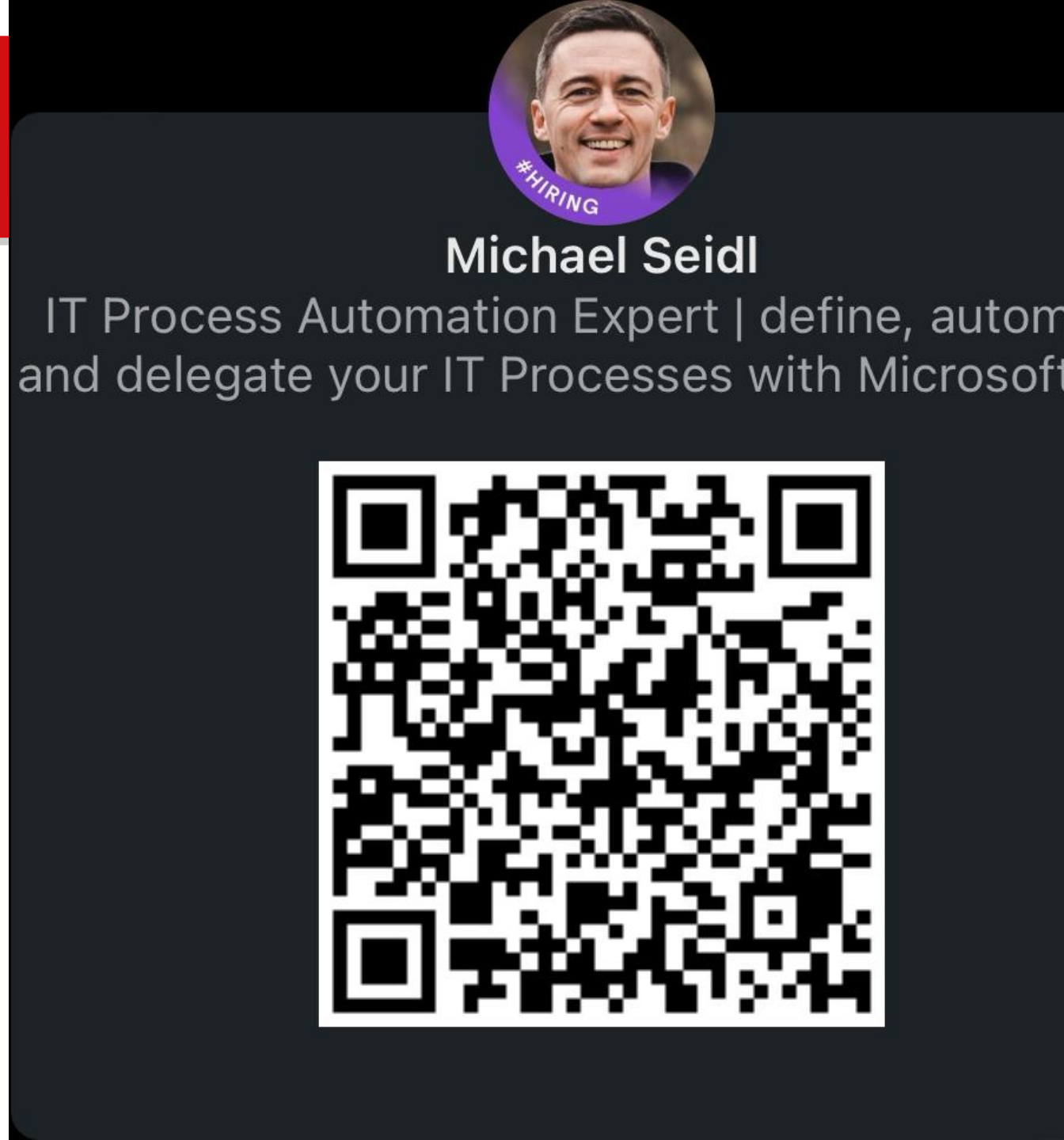
POWER
COMMUNITY

DEMO



THE END

- Examples on GitHub
  - github.com/Seidlm/Events
- Q&A
- Contact
  - LinkedIn/in/seidlm



PODCAST

https://MichaelSeidl.info/Podcast

dox42®
automate your documents
integrate your data

Gravitas Recruitment Group
serious about talent

mazikglobal

CoreView

Sponsors

THANK YOU!

POWER PLATFORM COMMUNITY