

Unified Power BI, Power Automate, Power Apps Governance with Doctor Flow and Isa

Isabelle Van Campenhoudt • @theSQLgrrrl Serge Luca • @sergeluca





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Doctor Flow aka "Serge Luca"

Business Application MVP, Brussels

MVP 15th year

Business Apps, Office 365 Solution architect

Creator of the open-source Power Platform BPM Toolkit

Author of "Power Automate in a day"

Blog: sergeluca.wordpress.com

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Office365

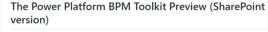
Power Aut.

Power Apps

Architecture

Bullshit





Welcome to the early release of the Power Platform BPM Toolkit for SharePoint. The creator of this tool is serge luca aka 'Doctor Flow'.

What is the BPM Toolkit?

BPM means "Business Process Management

BPM in Wikipedia.

BPM according to IBM.

The goal was to provide a highly secured approval system that can be used in HR, supply chain management, finant in order to fix some shortcomings in the Power Platform like the 30 days approval limitation, no tasks delegation, no state machine, no graphical view of the running worldlows...



Isabelle Van Campenhoudt

Data Platform MVP, Brussels

Consultant, Speaker Trainer, Community Leader

SQL server since 1999

SharePoint BI & Power BI since it starts

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SQL

BI

Tuning

Architecture

Coffee making









-) Introduction
 -) Vision
- Attention Points
 - Conclusions





Why Unified?

Unified approach

Power BI is often managed by a dedicated Power BI or the traditional BI team

Confusing for everyone, including for sponsors

Conceptually the challenges are the same

- We have Self-Service
 - citizen devs and BI makers
 - Pro dev
 - People in between
- The audiences overlap
 - More and more Power BI makers become citizen devs (Power Apps/ Power Automate)
 - More and more citizen dev, integrate Power BI dashboard with their apps
- The adoption concepts are the same





How do we work?



The "Check-list"











➤ 300 Highly technical and non-technical topics

Last updated: 20/9	9/2021, Serge			
Sequence Apps	⊌ Category	■ Sub Category	▼ Frequency	▼ Action
	1 Nurture and educate	Training		Educate IT : what is the Power Platform, what are
	2 Nurture and educate	Training		Educate IT : Power Apps + Power Automate + Pow
	3 Nurture and educate	Training		Educate IT : Licensing guide
	4 Admin & governance	Training		Educate IT: Read the doc "Manage environments"
	10 Strategy & Vision			Define vision: reduce backlog or increase innovat
	20 Security	Training		Educate IT: Fully understand security roles
	30 Strategy & Vision			Find executive sponsor
	40 Security	Training		Understand user security: read the reference doc
	50 Strategy & Vision			Define low code strategy team ????
	60 Security			Assign Power Platform Admin role
	70 Business value		Weekly	(???mot backlog)Start creating the real backlog - i
	80 Security			Isolate the tenant & desactivate publish to web
	90 Strategy & Vision			Define Power Platform role in the IT portfolio
	100 Security			Restrict creation of environment and powerBI wo
	110 Security			Set up Azure AD conditional access
	110 Admin & governance			Rename the default environment as Personal prod
	120 Admin & governance			Define roles in operation (???isa)
	130 Security			Define email exfiltration blocking
	140 Strategy & Vision			Define dedicated Power Platform product Owner
	150 Admin & governance			Define environment (container) strategy
				Identify risks of citizen devs : technical debt,fuite
				sécurité), bug, consommation des ressources (pre
	160 Strategy & vision			lente), lenteur
	170 Security			Define DLP policies + powerBI policies (Isa todo D
	180 Strategy & Vision		monthly	Define bottom-up and top-down innovation
	190 Admin & governance			Activate standard Power Apps & Power Automate
	200 Security			Define tenant and environment policies

Sequenc	ce Apps	<u>▼</u> Category	J Sub Category	Frequency	▼ Action
		Admin & governance			Content backup
		10 Admin & governance			Define "owners" of specific non Microsoft connectors (Like Adobe)
		20 Admin & governance			Define a protocol with procurement in order to quickly be able to buy a connector licence
		30 Admin & governance	ALM		Define ALM strategy
		Admin & governance			Define security roles for workspaces Personae and roles
	#REF!	Admin & governance			Define procedure to request workspaces
	#REF!	Admin & governance			Define roles in operation
	#REF!	Admin & governance	Training		Educate IT : Read the doc Guidance
		Admin & governance			Identify delivery scope (Personal reports, Teams reports, Departmental reports, Enterprise Reports, B2B re
		Admin & governance		Weekly	Identify unused and orphaned resources
	#REF!	Admin & governance			Install the On premises data gateway
		Admin & governance			Make data usage compliant
		10 Admin & governance		Weekly	Plan & manage licences & capacity (storage &)
		20 Admin & governance			Define personnal workspace usage
		Admin & governance		Weekly	Resource Cleanup
		Admin & governance			When a "Dev" workspace is created the devs can become workspaces member , admin remains to the tena
		Admin & governance			Prototyping Activities and Sharing
		Admin & governance			Workflow Automation + Updating Data from Within Power BI
		Admin & governance			Self-Service Data Preparation and Machine Learning
		Admin & governance			Power BI Service Modern Release Cycle
		Admin & governance			Power BI Premium Capacities
		Admin & governance			Deciding Whether to Use Power BI Premium
		Admin & governance			Power BI Dataflows
		Admin & governance			Organizational Purchasing of Power BI User Licenses
		Admin & governance			Self-Service Purchasing of Power BI User Licenses
		Admin & governance			Identities and Credentials Used by the Data Gateway
		Admin & governance			Managing Dataset Authorship
		Admin & governance			Using Templates to Speed Up and Standardize Report Development
		Admin & governance			Naming of Tables, Columns, and Measures
		Admin & governance			Verifying Accessibility on Reports
		Admin & governance			Using Custom Data Connectors
		Admin & governance			Collaboration, Sharing, and Distribution in the Power BI Service
		Admin & governance			Shared and Certified Datasets and Dataflows





Role of IT in the Power Platform





Maximize the benefits of using the Power Platform



Minimize the risks of using the Power Platform



React quickly & not slowing down the business



Delegate experts



Minimize risks

Short term:

- Bugs
- Lack of support
- Several versions of the truth
- Data Loss

Long term:

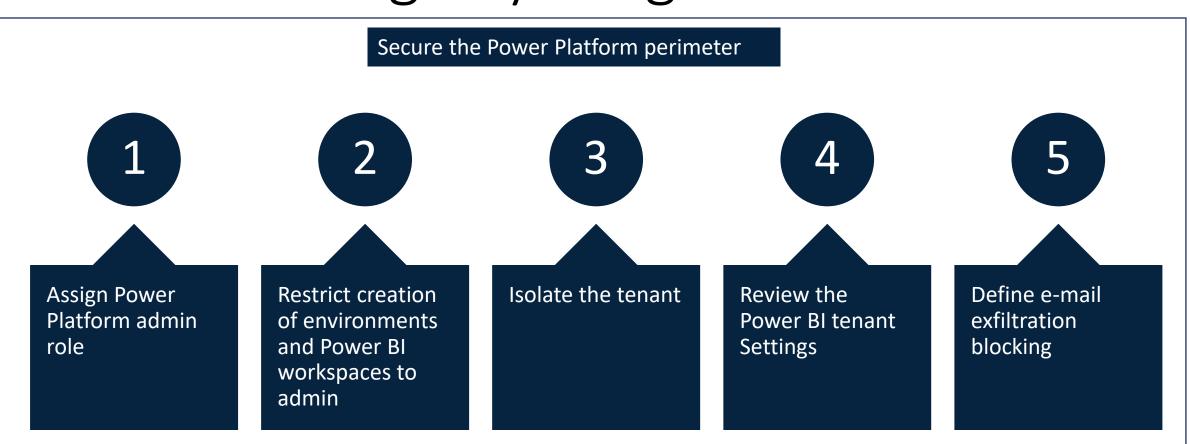
• Technical debt





First do this !!!

Before doing anything





Define the role of the Power Platform in the IT portfolio



Extensibility

Power **Platform**











Every developer (low code)













Bot

Azure Services



Azure

AKS

Logic Apps

Cognitive Services

Services

Azure Office & **Data Services**





SQL Azure Azure Synapse Analytics



Cosmos DB



Analysis Services

Pro developers





Code



A platform for all makers





Intuitive to use & easy

Citizen Developer Self-BI champions One admin center to rule them all for IT Administrators

IT Administrator

World class Pro
Developer support
and ALM

Professional Developer BI









Educate IT



1.(Workshop)
What is the Power
Platform, benefits,
risks

2.(Course) Power Apps, Power Automate, Power BI

- With the business
- Makes sure this course cover the best practices and the rules in place
- Limitations of the tools
- Reduce risks

3. (Course) Power Platform Governance



4.(Workshop)

Deeply understand licensing

• Storage, connectors, throttling







Create a dedicated Center of Excellence

CoE Scope





Mentoring

Training materials

Documentation and resources

Governance guidelines

System oversight and administration

Support issues --escalated from the help desk

Developing solutions and/or proofs of concept

Establishing and maintaining the BI platform and data architecture



CoE Roles





Power BI



Power Apps
Power Automate



Product Owner					
Solution architect					
Trainer, coach					
Data pro	App pro				
Data pro	Αρρ ριο				
	upport				





Install the Power Platform CoE Starter kit



The Power Platform CoE starter kit



At least these:

Core components

Governance components

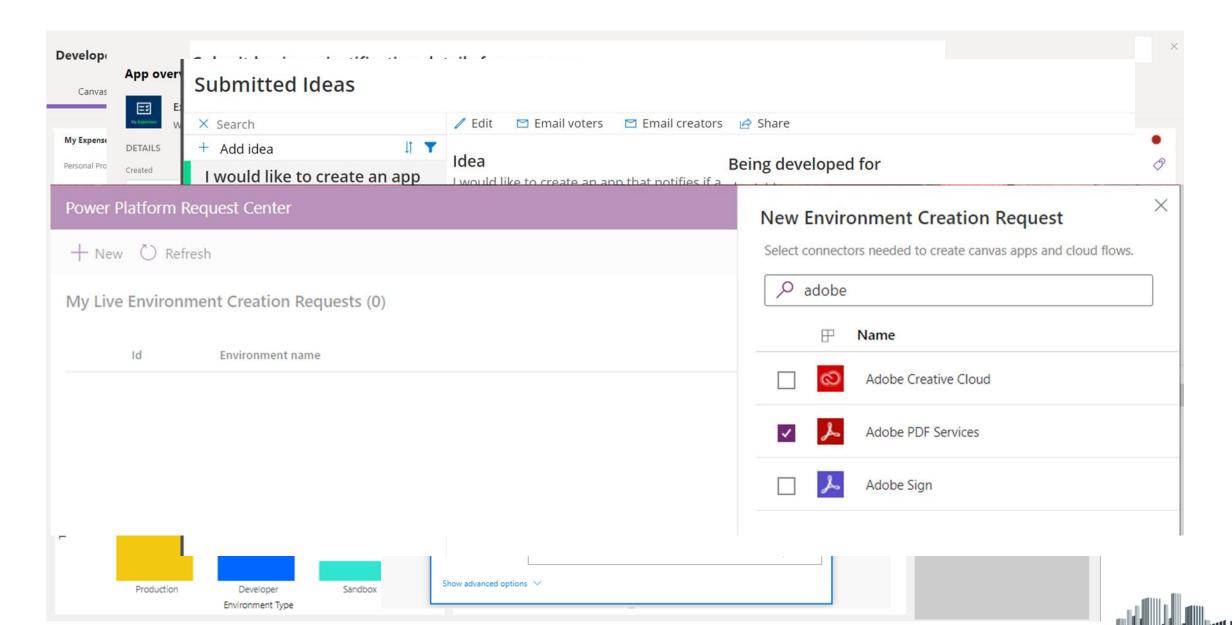
Nurture components

Theming components

Innovation Backlog components

ALM Accelerator for Makers components





Power BI CoE Kit?





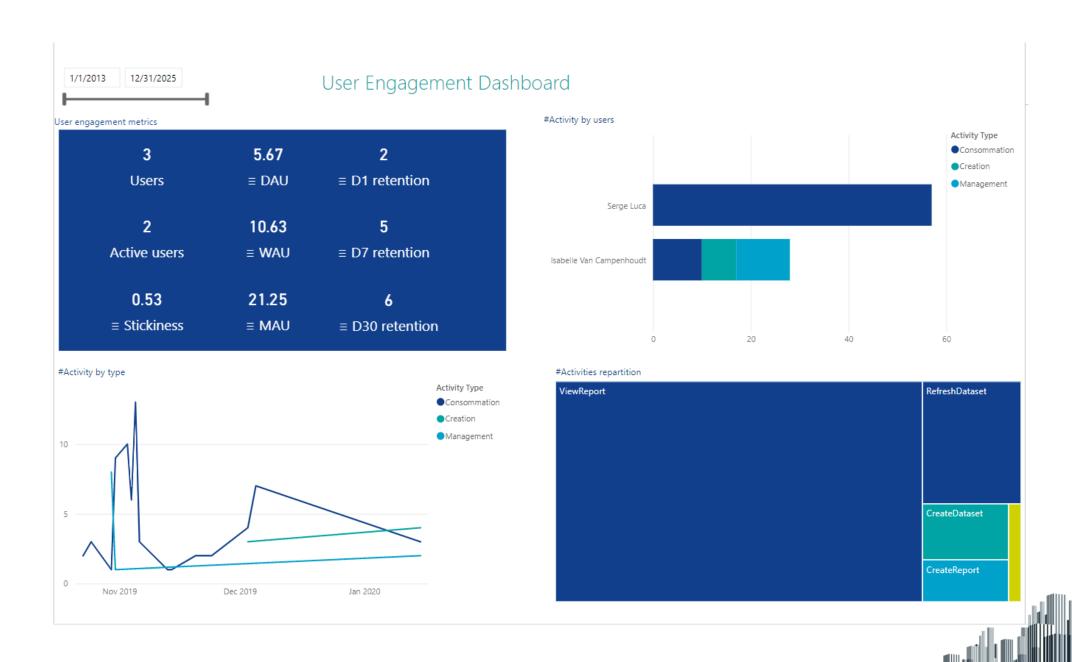
What do you need?

- Inventory
- Monitoring
- Automation

How to achieve it?

- Integrated tooling like Usage reports
- Power BI Rest APIs is the key
- Third party
- Azure PureView?





Power Platform Associates





Define the container strategy





Power Apps Power Automate

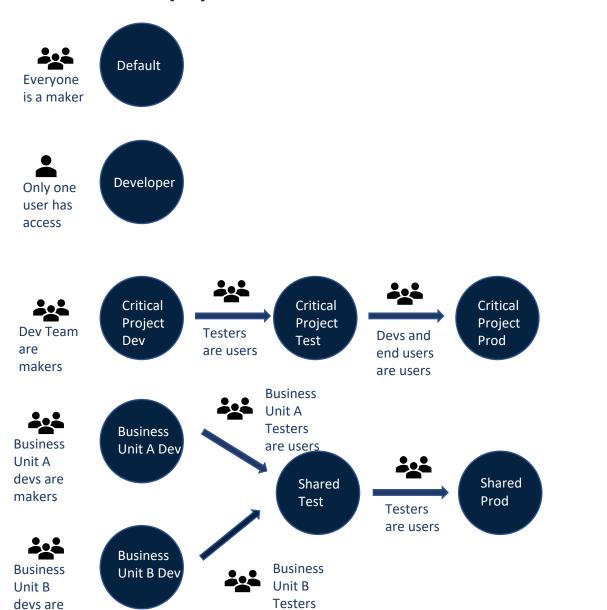
Environments

Power BI

Workspaces



Power Apps/Automate environment strategies



are users

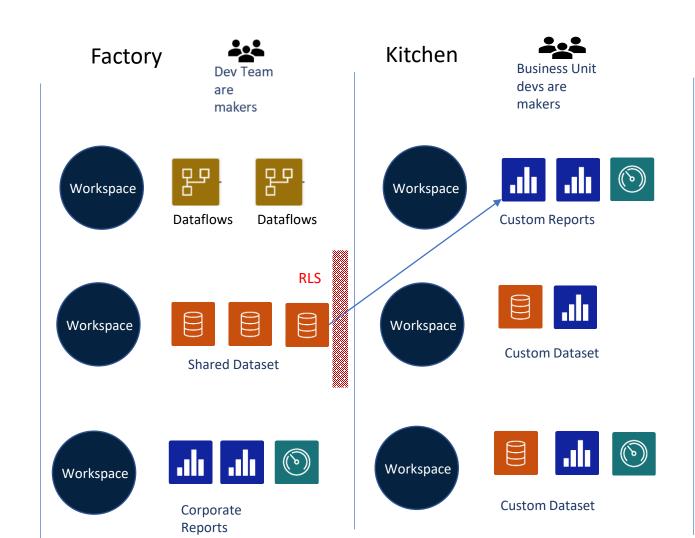
makers



Power BI typical organisation

Enterprise data



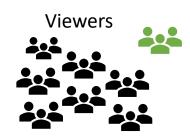


Restaurant

Apps













Define policies

The main concern = data loss

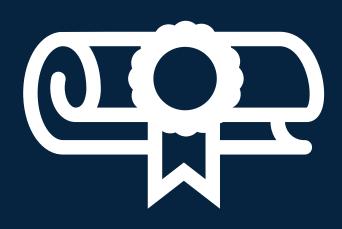
Power automate/Power apps

- **DLP Policies** (Block connectors, endpoint filtering, action control)
- e-mail exfiltration blocking
- Classify and sensitivity label in Dataverse

Manually configuration Power BI --- surface area

- Dataset protection with RLS and OLS
- Classify and label sensitive Power BI data
- Enforce governance policies even when Power BI content is exported to Excel, PowerPoint, or PDF...
- Monitor user activity





Educate: data and apps culture





Educate makers

Workshop: "What is the Power Platform, benefits, risks"

• For dept decision makers and dept directors

Course: "Power Apps, Power Automate, Power BI"

- Create 2 or 3 reference apps/dashboards
- Continuously improve & update them with new features /new practices
- Makes sure this course also covers the best practices and the rules in place
- Share the video of the course. Make sure people can do the labs alone
- Reduce risks

Make sure makers become aware of ALM issues

Sensibilize on Tests! Often underestimated

• Test ->User requirements must be used in test scenarios







Nurture



Grown a community



C -0 20 48 40 ±

Power Platform Associates

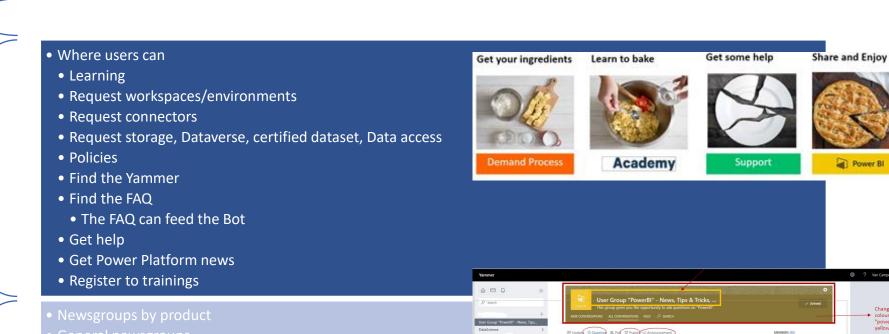
community how to ask a question



Define a SharePoint site

Define a Yammer (goal : organic support)

Newsletter



Use the question for support, propose #keywords like: #viz, #filters, #bookmarks etc

Adoption Campaigns



With internal communications

- Show and tell sessions (monthly)
- Celebrate success stories (monthly)
- Define career path for makers
- Encourage makers to become ambassador across their dept
- Clinics (weekly)
- Workshops
- Bootcamps
- Newsletter



ALM

Continuous Integration/Delivery (CI/CD)

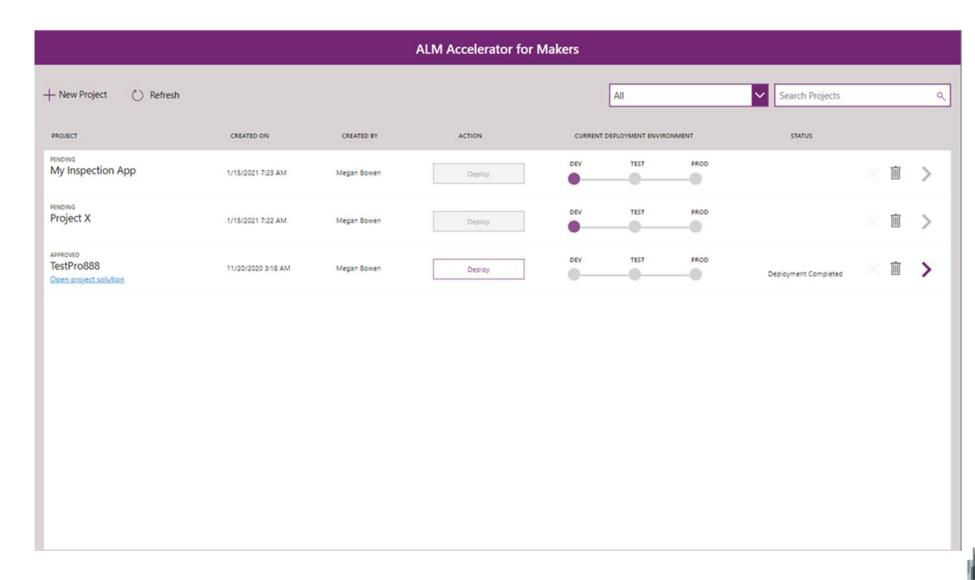
Simple scenario

- Deploy from DEV->TEST->PROD
 - Manuel
 - Automated
 - Power BI pipelines (premium)
 - Power Platform Build tools & Azure DevOps or Github

Complex scenario

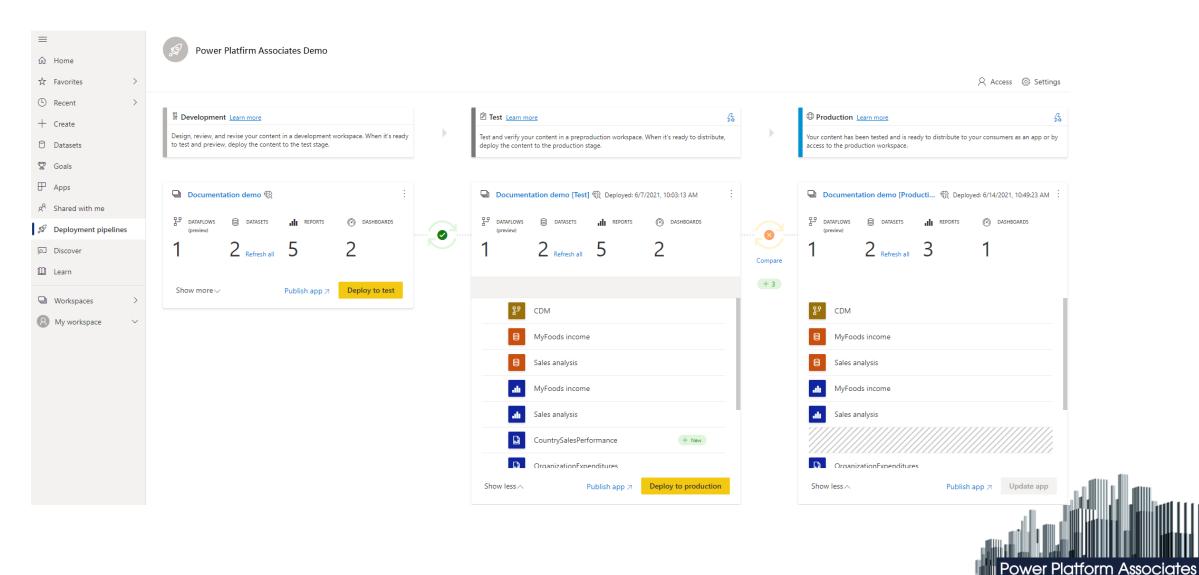
- V1 is in PROD
- V2 is in DEV
- A critical bug must be deployed to V1 (PROD) asap
- It must also be included in V2 (DEV)
- We need source control, branching, merging
 - New immature tools for Power Apps (Power Apps source code Tool)
 - Not available yet for Power BI

Power Platform CoE ALM Accelerator





Power BI pipelines (Premium)



Summary

Role of Power Platform in IT portfolio

Role of IT

It makes sense to have a single CoE

Huge benefits of sharing a data/apps culture

ALM story is weak (work in progress)

Technical debt

It takes a village...



Without **empathy**, our 320 check list governance items don't work



Thank You

www.PowerPlatformAssociates.com

https://github.com/sergeluca/Power-Platform-BPM-Toolkit

https://github.com/Power-Automate-in-a-day/Training-by-the-community

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Deliverables www.shareql.com

