

# GLOBAL POWER PLATFORM BOOTCAMP

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Organized Globally, Held Locally



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# Let citizen developers extend the capabilities of your applications...without p\*ssing off IT

Jan Van Meirvenne



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# Whoami

- Jan Van Meirvenne
  - Architect @ DexMach
  - Like: Anything Cloud
  - Love: Application & Data Modernisation



# Session Objectives & Agenda

- What is citizen development?
  - Role within organization
  - History
  - How does it compare to traditional development?
- How to empower citizen developers →
  - Open Applications
  - Service Discovery
  - Secure integration
- How to empower an IT organization...as a citizen developer ←
  - Extend Surface Area
  - Cross-Domain Integrations



Aka how to get IT  
into the  
PowerPlatformAF



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# What is a citizen developer?




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# Definition

Gartner

A citizen developer is a user who creates new business applications for consumption by others using development and runtime environments sanctioned by corporate IT.



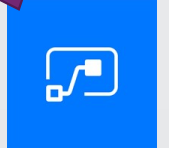
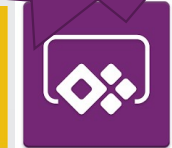
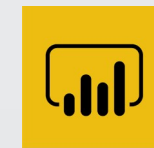
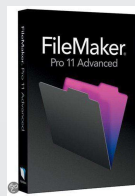
TL;DR; A black market dealer in shadow IT, who also saves puppies



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# History of citizen development

Not revolution  
but evolution



Spectate

Integrate

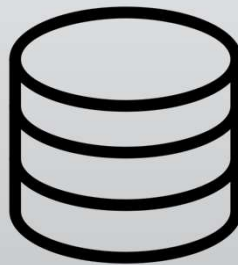
Collaborate

File

Database

Web service

Cloud



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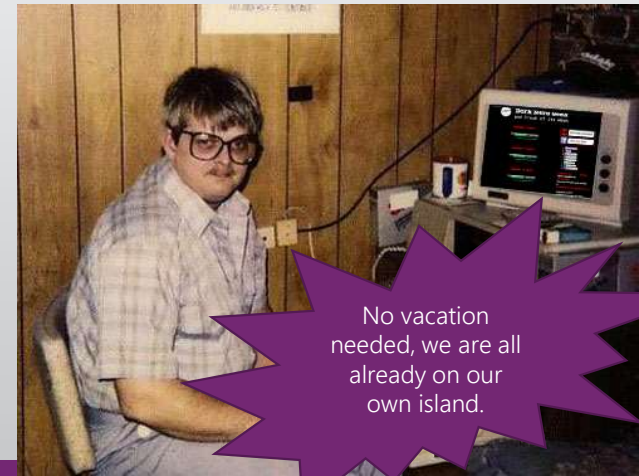


# Citizen Developers & IT – the usual



- "Hey can I get godmode access to this database, otherwise my Excel doesn't work. I also need the keys to your car"
- "I need your application to bake waffles and invent warp speed travel, by yesterday"
- "What? The website is down because I refreshed my report 100 times in a hour? You don't understand blockchain!"

- "Ok, can you create a ticket for this? We'll have your access ready just past your project's deadline"
- "Ok, we will add it to our backlog, it is item number #bufferoverflow"
- "We don't understand blockchain, but we do understand blockaccess"



No vacation needed, we are all already on our own island.



Business  
Value

IT  
Governance

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# Citizen Developers & IT – the opportunity



- “Can we tap into your application and integrate it with our ticketing system?”
- “Can we use your application in our customer service robot?”
- “Can we keep your application in sync with this other related business service”

- Yes, you can!

Business/IT  
conversation is  
key here

Business  
Value

IT  
Governance



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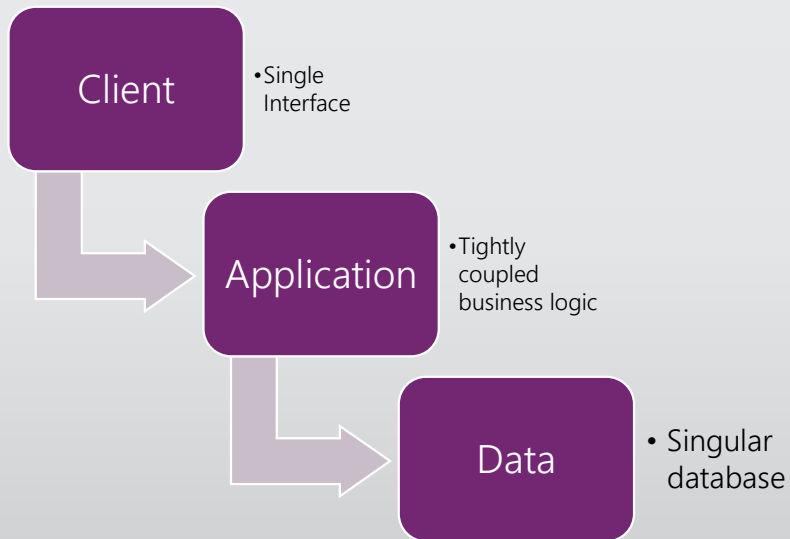
# How to empower Citizen Developers?



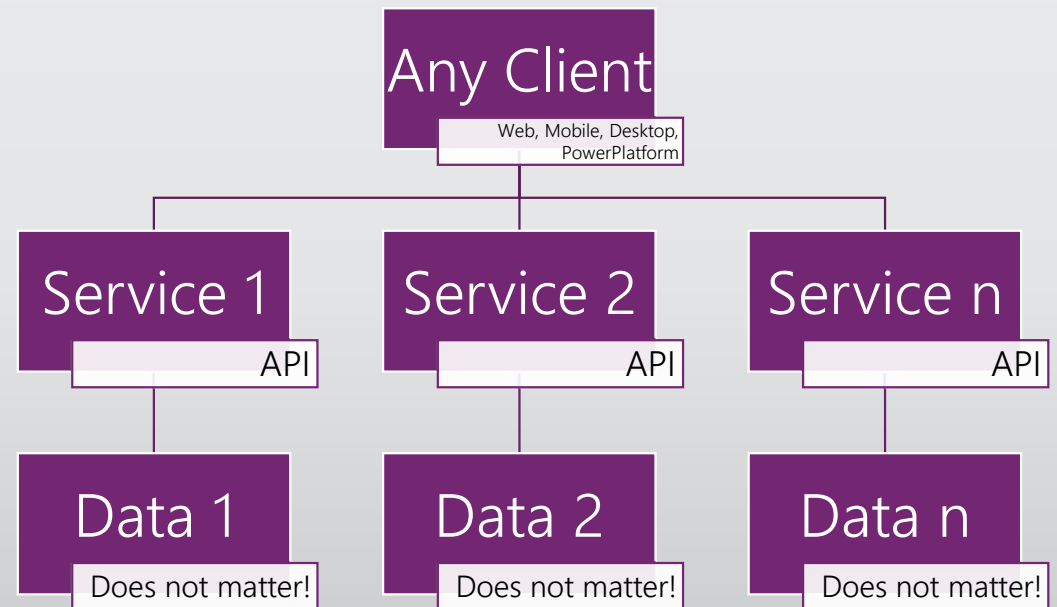
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# Empowering Citizen Devs – Open Applications

- Traditional Monoliths



- Modern MicroServices



Can be hard or easy depending on code age and health. Don't be afraid of a brown/greenfield!

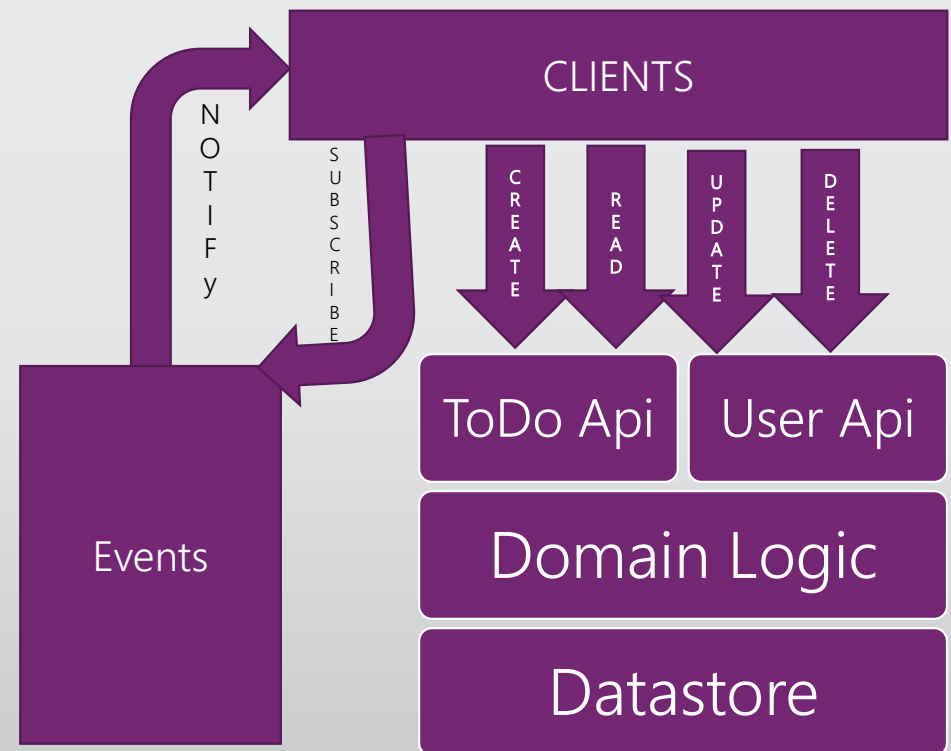


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# Demo Subject

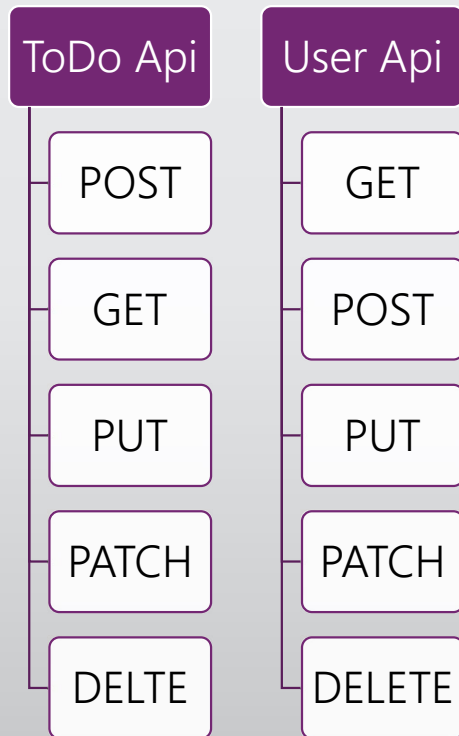
- The best todo app ever!
  - Create todo's
  - List todo's
  - Complete todo's

Minimum Viable Product, with a huge backlog



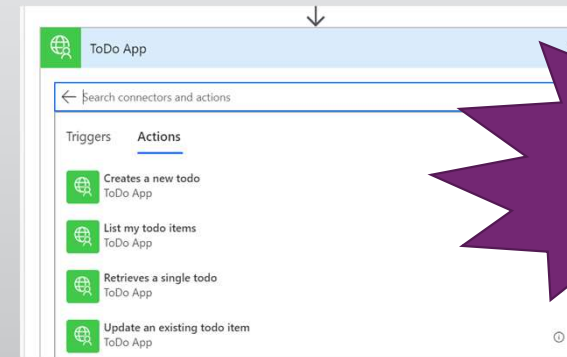
# Empowering Citizen devs – Service Discovery

- Technical connectivity



- Documented interfaces

User	ToDo	Events
<input type="checkbox"/> Create a user	<input type="checkbox"/> Create todo	<input type="checkbox"/> ToDo Created
<input type="checkbox"/> Get all users	<input type="checkbox"/> Update todo	<input type="checkbox"/> ToDo Updates
<input type="checkbox"/> Delete a user	<input type="checkbox"/> List my todo's	

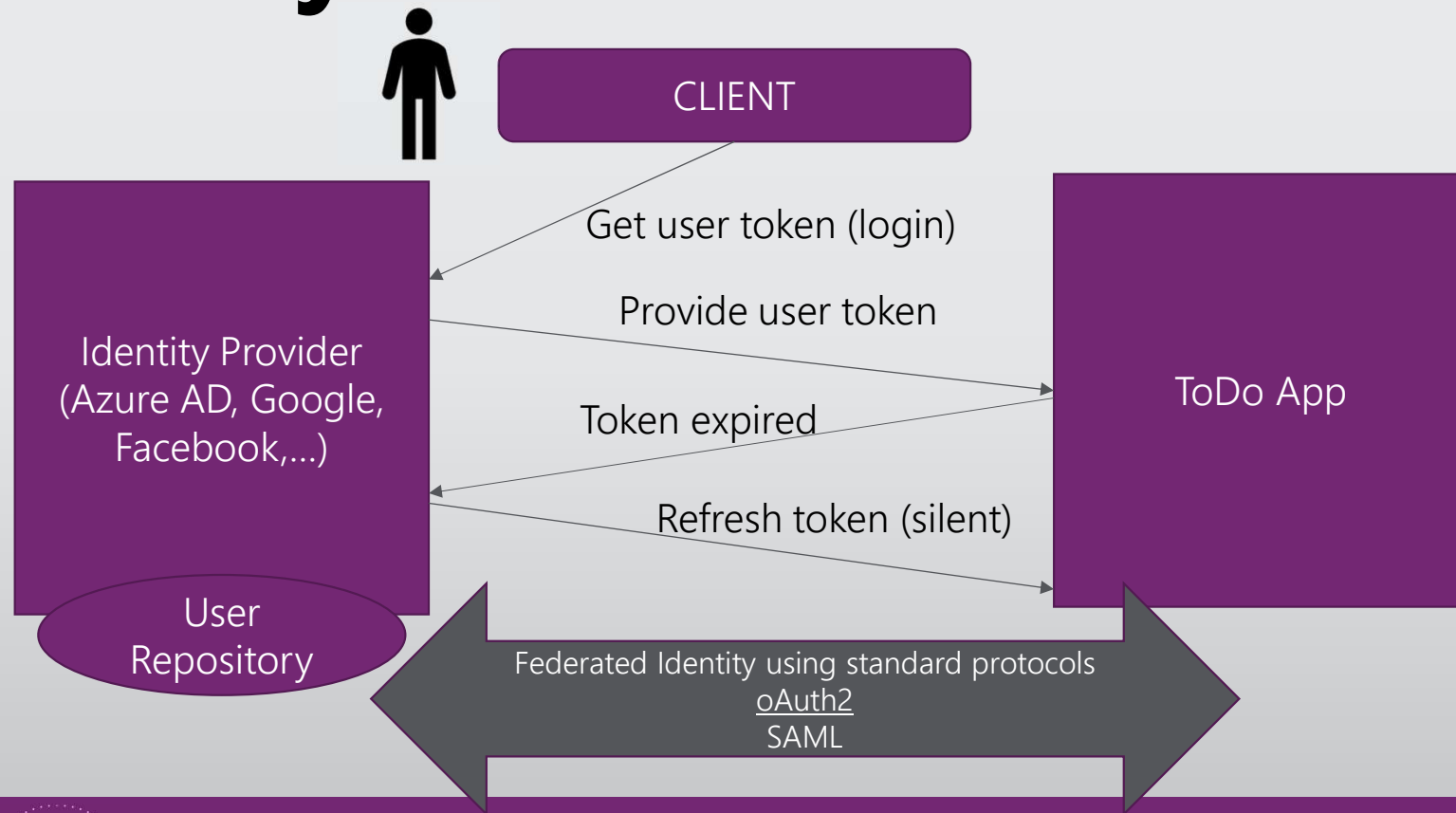


Hey, these are starting to look like actions and triggers!



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# Empowering Citizen Devs – Central Identity



Our App is the concert.  
Your token is the  
concert ticket. Azure  
AD is the ticket broker.



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# Empowering Citizen devs – Secure Integration

IT can protect the app without the need to change the code

`https://local/todo/v1`

CLIENT

`https://apigw/todo/`

API gateway

- Single endpoint
- "just enough api"
- Versioning
- Policies
- Logging



TODO API v1

`https://local/todo/v2`

TODO API v2

TODO ADMIN API



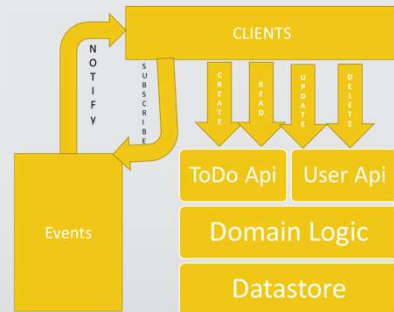
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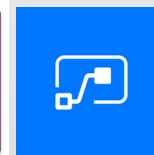
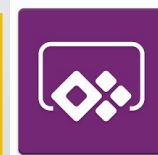
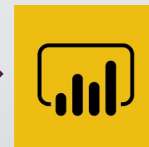
# **How Citizen Developers empower IT**

# Extend surface area

- IT + Traditional Developers
  - Focus on core app + infra



- Citizen Developers
  - Extend app capabilities
    - Integrations
    - Interfaces



"I can finally make work of that new feature to allow a user to view his profile"

"Oh nice, let me add it to my chatbot so users can request it via Teams or Cortana"



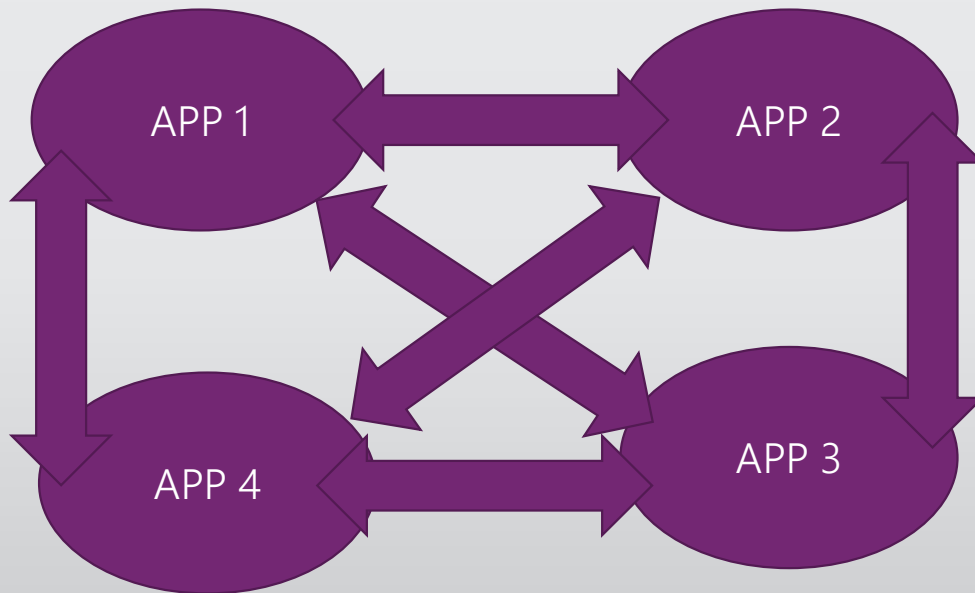
Fill the development gap by offloading backlog to the business themselves!



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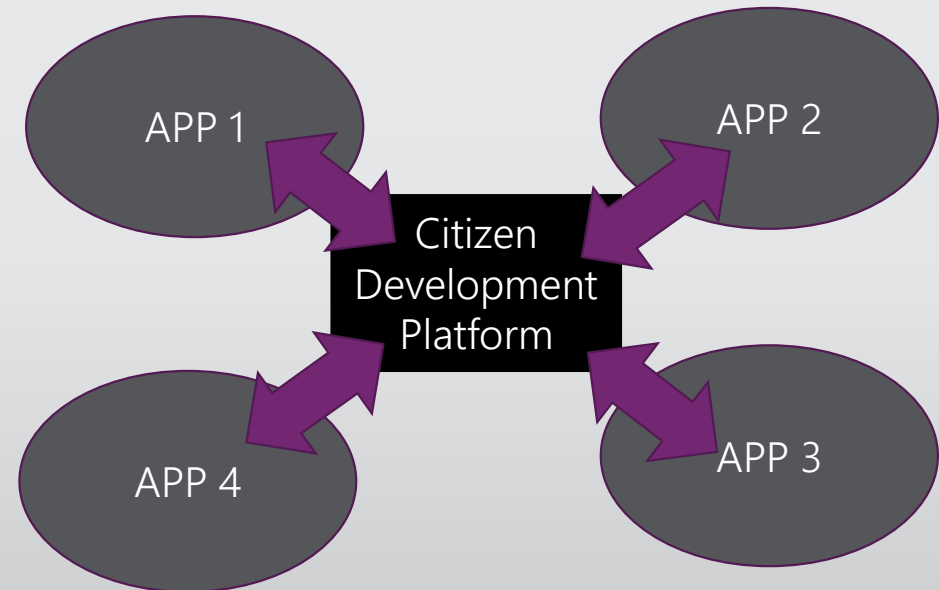
# Cross-Domain integration

- Direct Domain Integration



Tight Coupling with low flexibility

- Brokered integration



Loose coupling with high flexibility

Increase cross-silo collaboration without the politics!

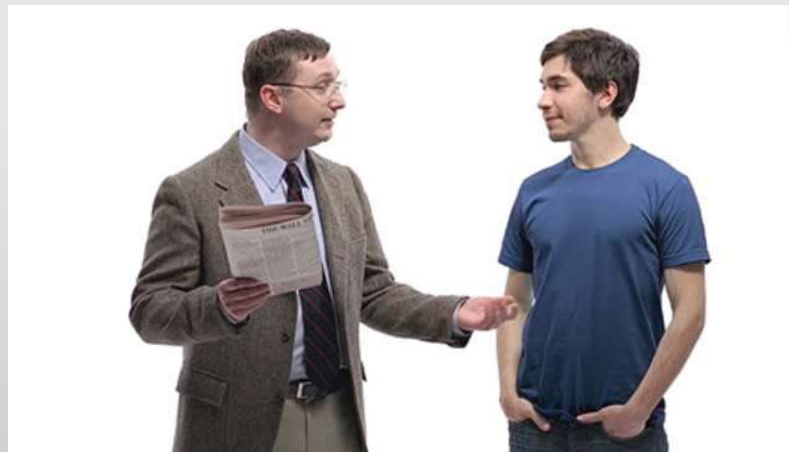
# Key Takeaways

One Identity  
PowerPlatform  
as accelerator

Focus on  
extending  
apps

I am the business

I am the IT



Lets add some value

Open Apps  
Central Security  
Flexible  
governance

Focus on  
delivering apps



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# Thank you!

- All code & content:  
<https://github.com/JanVanMeirvenne/ToDoApp>
- Questions?



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**Please fill  
out the  
survey!  
& Win  
Swags!!**



<https://www.powerplatformbootcamp.com/survey>



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# Thank You For Attending



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