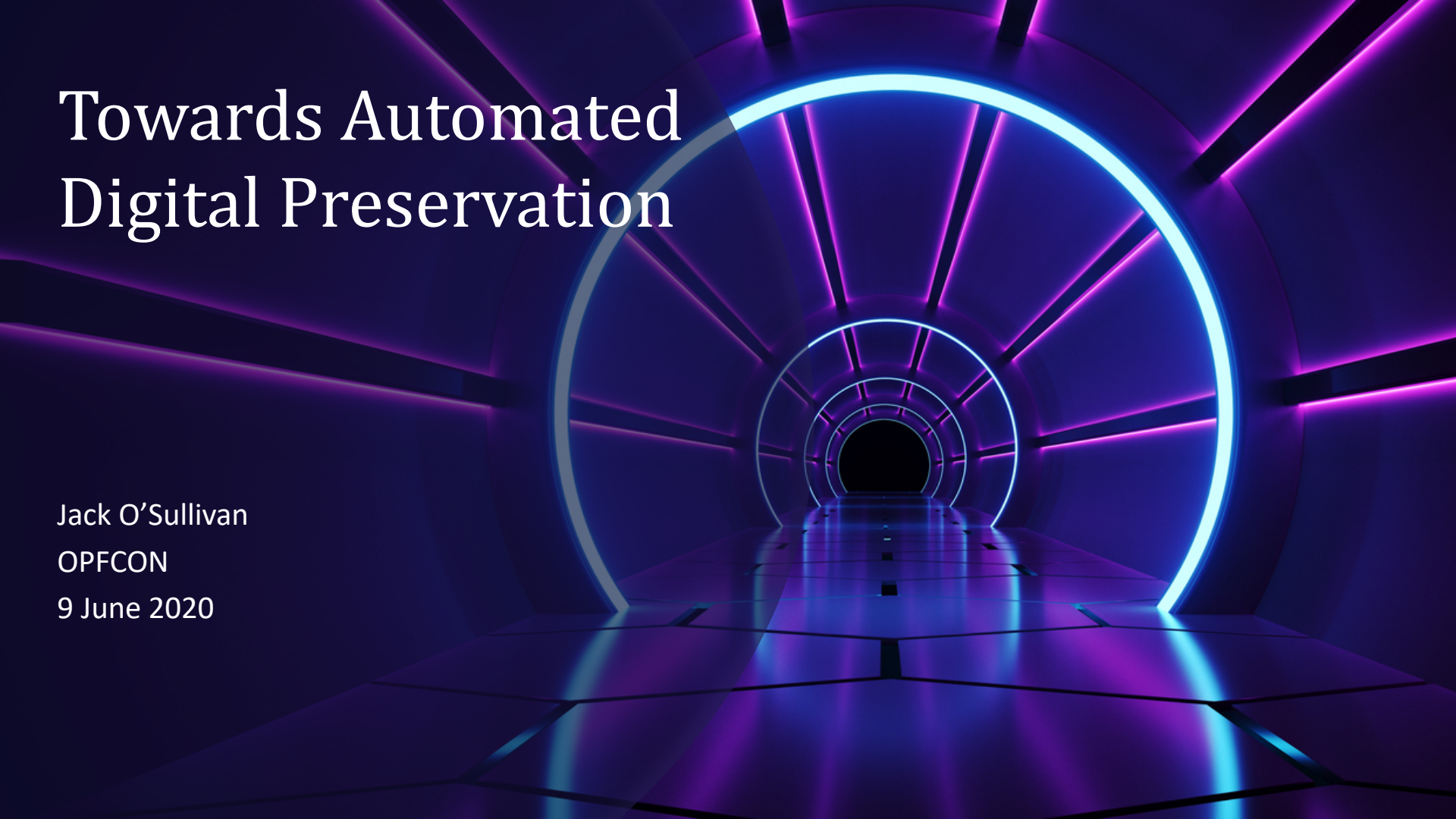


# Towards Automated Digital Preservation

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OPFCON

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# What is Automated Preservation?





Why?



**Preservica**  
Active digital preservation



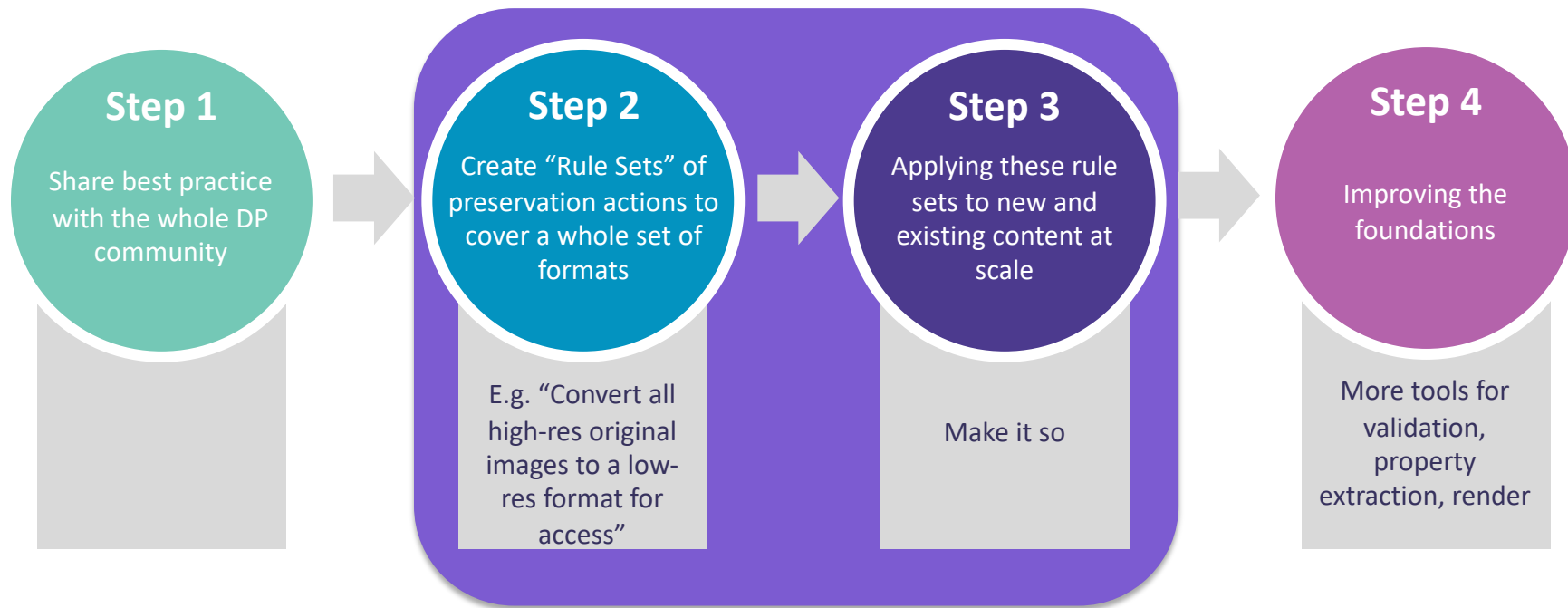
# Community Knowledge



**Preservica**  
Active digital preservation



# Four steps towards auto-preservation



A photograph of two men sitting on wide wooden steps. The man on the left is wearing a dark suit and is looking at a laptop. The man on the right is wearing a light-colored shirt and dark trousers, and is looking towards the first man. A black bag is on the step to the right of the second man. A large, semi-transparent purple circle is overlaid on the right side of the image.

## Step 1:

### The Preservation Acton Registries API

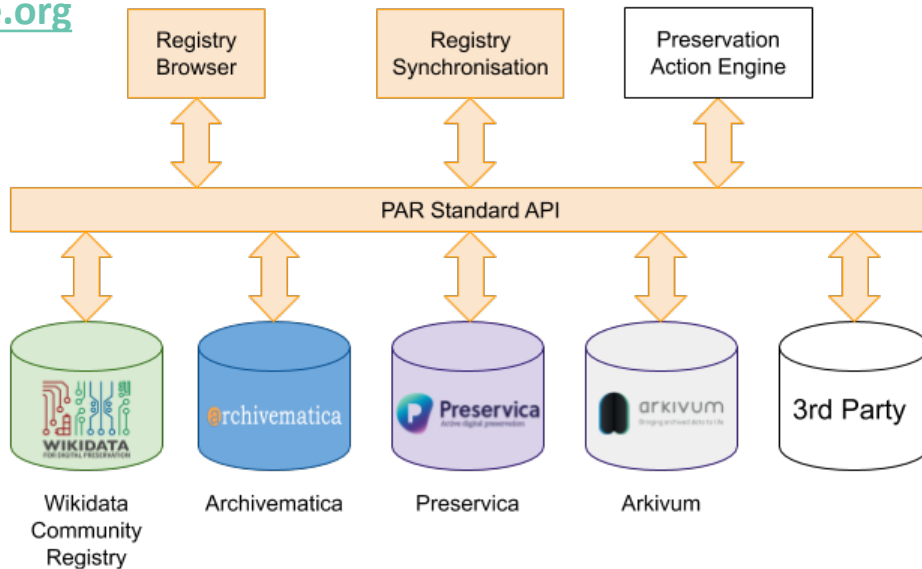


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# Preservation Action Registries

<http://parcore.org>



# Sharing best practice for format preservation

## What are we sharing

- Tools e.g. ImageMagick (open source image editing tool)
- Actions e.g. ImageMagick can be run with these parameters to produce downsized JPEGs
- Business rule e.g. use this action on TIFF files

## Open API

- Currently Preservica, Artefactual, Arkivum, OPF, JISC with more soon
- So we can see other people's techniques and we can see theirs
- Full documentation online

<https://preview.preservica.com/Registry/par/documentation.html>





## Step 2:

Using PAR info to build recommended rule sets



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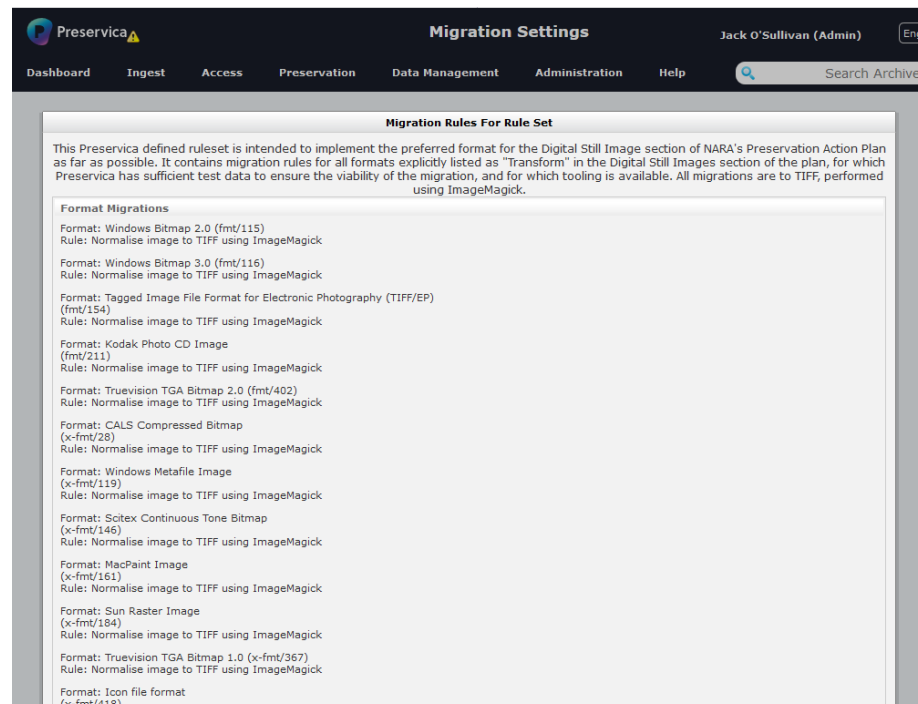
# Building Recommendations

## Using Published Policies/Advice

- NARA's Digital Preservation Framework "Still Images"
- Map a format (e.g. Kodak PhotoCD) to a Business Rule to create TIFF

## Longer Term

- Institutions publish these rule sets directly







## Step 3:

Applying the rules automatically

# Applying the rules

## **Rule sets always updated**

- The rule sets are looked up live from the registry so always up to date
- Always applied to new ingests

## **Applying to existing data**

- When telling the system that the rules have been updated you can say what you want to happen
  - e.g. Re-migrate specific formats



# Auto-preservation in action: migration

A man with short dark hair, a beard, and black-rimmed glasses is smiling broadly while looking at a laptop screen. He is wearing a dark blue button-down shirt with a small white pattern. The background is a blurred office or home workspace with shelves and a desk lamp. A large, semi-transparent purple shape is overlaid on the left side of the image, containing the text.

Preservica User

Uses the system

# What Next?

- Challenges of scale:
  - How does this work with petabytes of data?
  - How does this work with hundreds of users?
- Network challenges:
  - Can we get the expertise published?



# Thank you

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