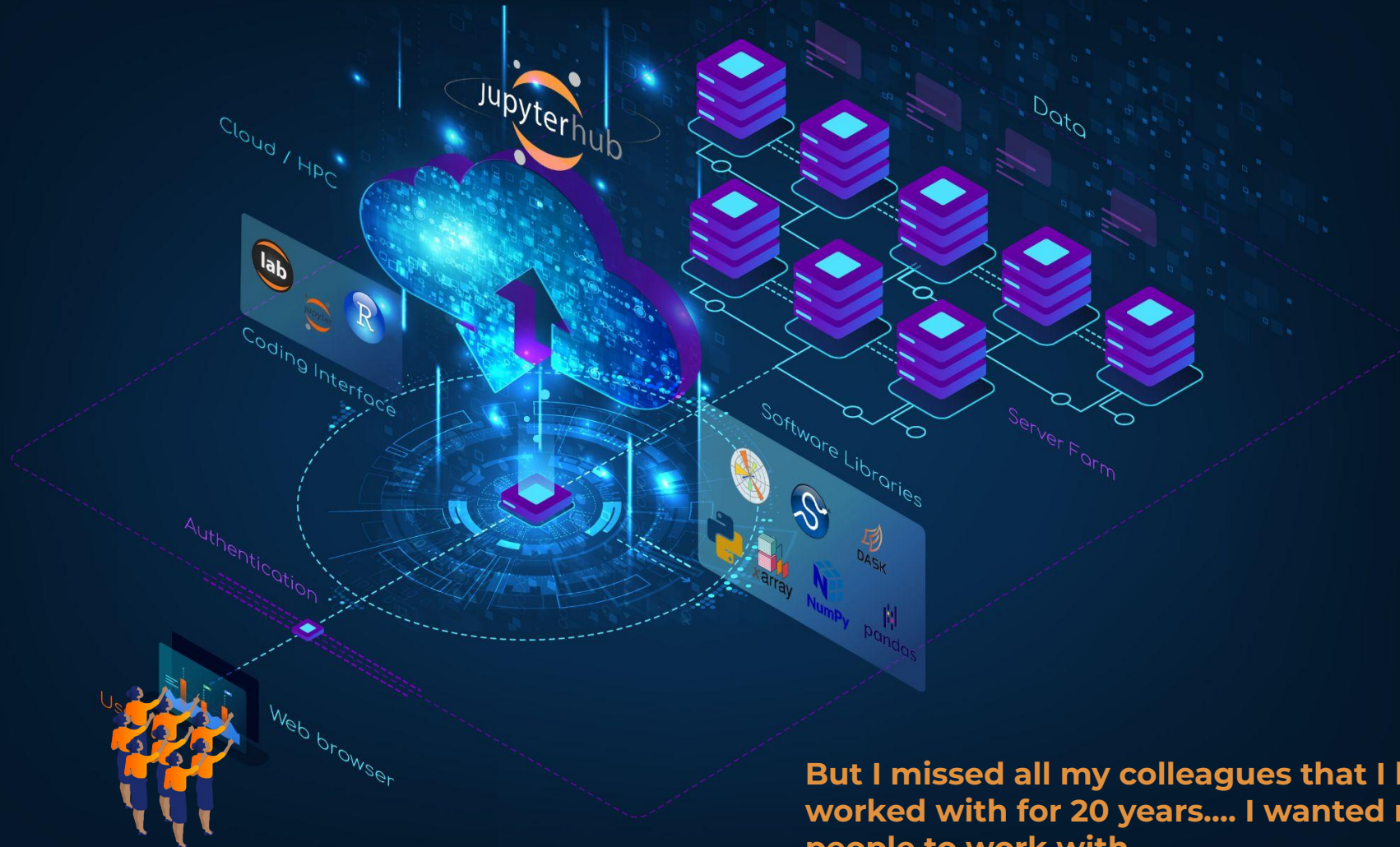


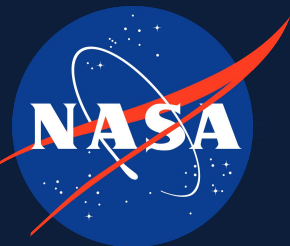
So this is how I started to do science, on the cloud, with my big-data cloud computing colleagues....



But I missed all my colleagues that I had worked with for 20 years.... I wanted more people to work with....



A NASA OPEN-SOURCE SCIENCE INITIATIVE: **TOPS**: TRANSFORM TO OPEN SCIENCE



Dr. Chelle Gentemann, Science Lead
Yvonne Ivey, Project Manager
Cyndi Hall, Community Coordinator
Isabella Martinez, Curriculum Coordinator
Karla Mastracchio, Communication Strategy
Yaitza Luna-Cruz, Science Coordinator
Elena Steponaitis, Science Advisor

Kevin Murphy, Chief Science Data Officer SMD
Katie Baynes, Deputy Chief Science Data Officer SMD
Dr. Steve Crawford, Science Data Officer SMD

8 March 2022



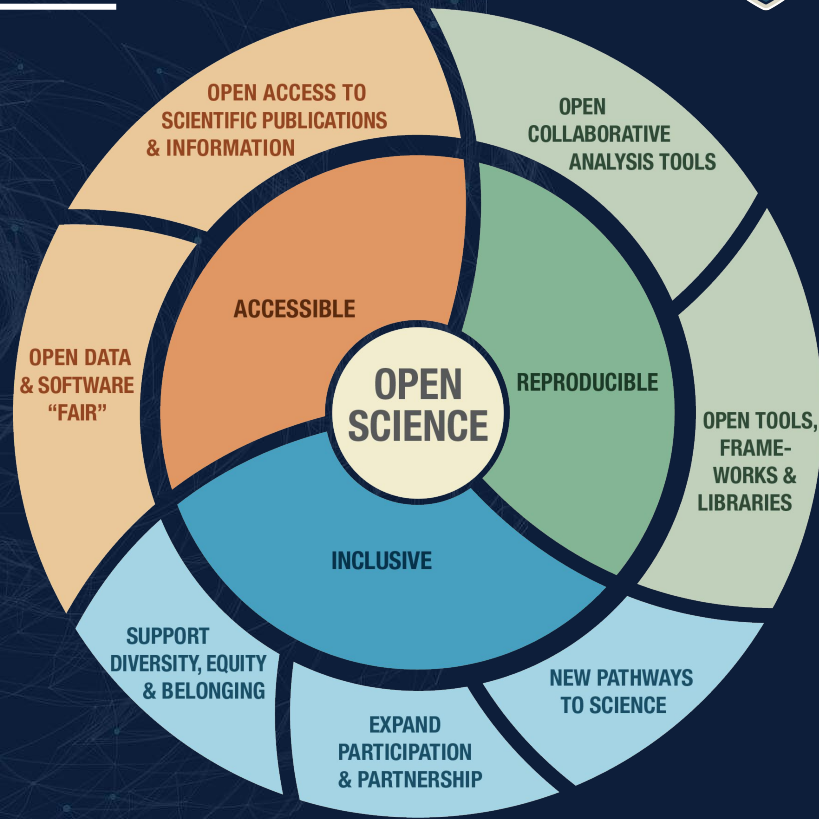
Open Science: Accessible, Reproducible & Inclusive...

Creates Research That Is:

- Cited more
- Creates a bigger impact
- Increases transparency
- Generates more scholarly collaborations

Inclusive Science means More:

- Collaborative projects
- Access to 'hidden knowledge'
- Equitable Systems
- Participation





2023 is NASA's Year of Open Science (YOOS)

TOPS will be energizing and uplifting open science across the scientific community through:



Visibility

TOPS and YOOS everywhere: Articles, announcements, Twitter Spaces, conferences

2023 Big annual meetings
Open Science Themes,
integrated into society
comms



Capacity Sharing Resources

Online, free, Open Science curriculum on Open edX

Workshops, events, cohorts, science team meetings, hackathons

Many paths to Open Science Badge



Incentives

Open Science Badge/Certification

High profile prizes and challenges

High profile awards in support of open science research



Changing the Game*

Proposals will

- Require open FAIR data, open software, open access
- Require Open Science Badge

Funding decisions will

- Consider Open Science activities

Awards will

- Consider Open Science activities and teams as well as individuals

*proposed



How YOU can Get Involved:

To implement a cultural shift, we need community engagement from the broad spectrum across the scientific community!

- We are looking for community partners to co-develop YOOS activities
 - Host and fund prizes and challenges,
 - Open, online open science curricula development,
 - Governance framework structures to develop open science action plans for science teams across agencies and institutions,
 - Budget for YOOS activities to support open science learning and funding requirements across science teams



Learn more and collaborate with us - we're working on GitHub!

- <https://github.com/nasa/Transform-to-Open-Science>
- Contact Yvonne Ivey (yvonne.ivey@nasa.gov)