REV.
PLAY
P/STILL
POWER
REW
FF
REC
PLAY /
REC CHECK
STOP
EJECT
ALARM
12:00
KEY
LOCK

Shaping the Globus User Experience

Vytas Čuplinskas
University of Chicago

PULL
PULL

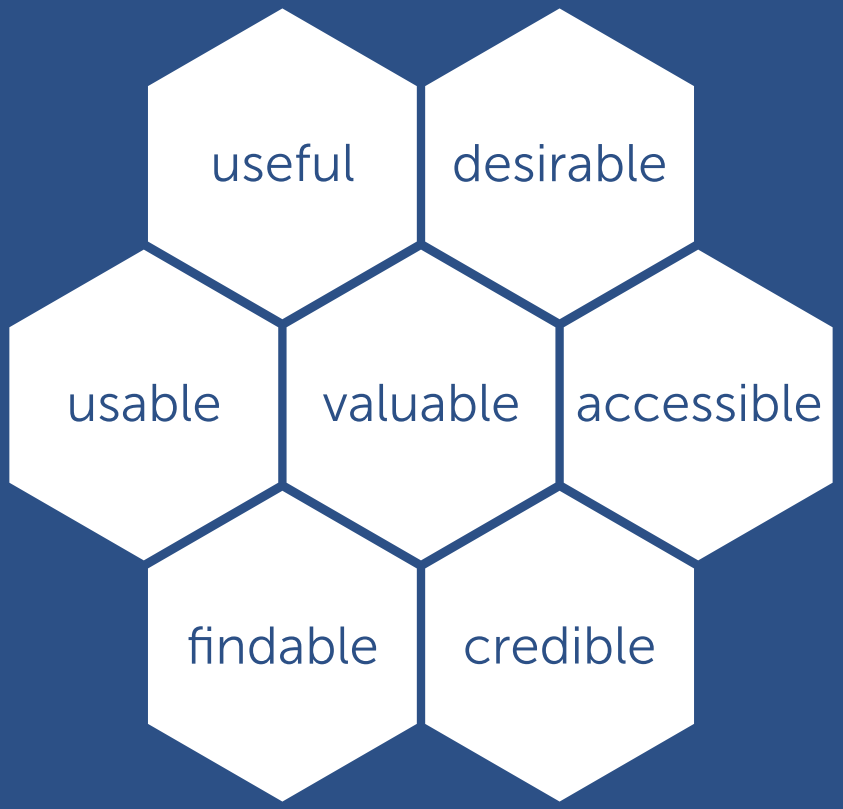
A user interface is like a joke.

If you have to explain it,
it's not that good.

Why is designing the user experience important?

obvious
requires thought

If something is hard to use,
I just don’t use it as much.



Peter Morville

The purpose of user experience design is to create personal value.

Cennydd Bowles – UX author

Get to Know Your Users

Chi Li Ing

- weather simulation researcher
- 33 years old
- masters in computer science
- Linux
- uses HPC resources heavily
- adept at using the CLI
- visually impaired

Gena Ura Ishwari

- gene expression researcher
- 42 years old
- Phd in molecular genetics
- macOS
- receives 1TB of new genomic data each week, that needs to be processed
- comfortable using computer
- prefers GUIs

Gather User Stories & Use Cases

User Story

As a _____,
I want to be able to _____,
so that _____ can be achieved.

Use Cases

Manage
Research Group
Membership

Publish
Research Data

Share Data with
Research Group

Move DNA
Sequencing Data
from Instrument to
RCC Data Store

Archive
Research Data

User Testing

User Support

Product Management

User Feedback

Product Vision

Gather User Stories & Use Cases

Client Feedback

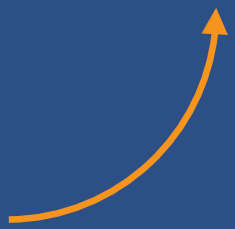
New Audience

New Technology

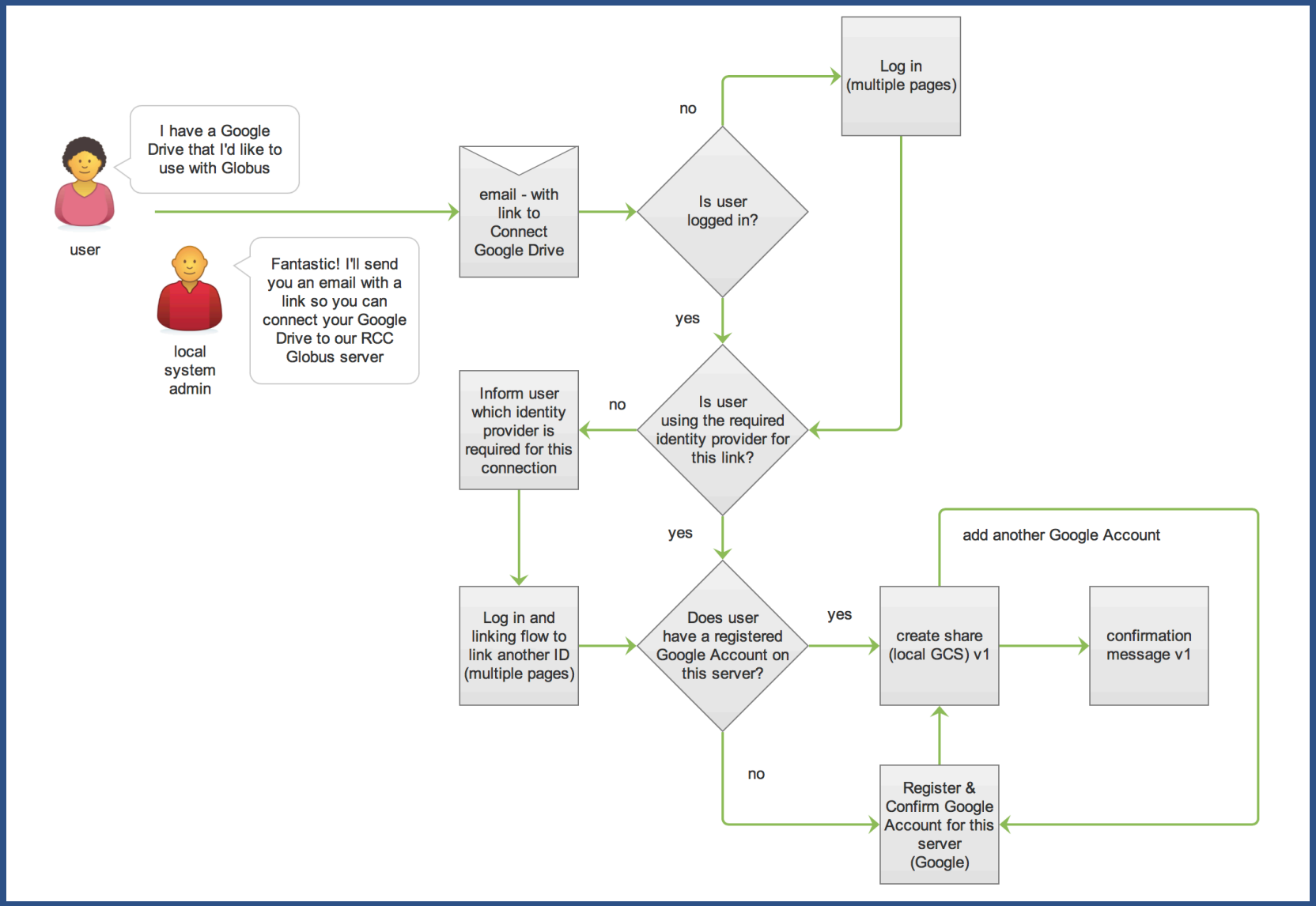
Gather
User Stories &
Use Cases

Wireframe,
Test &
Validate

Prioritize

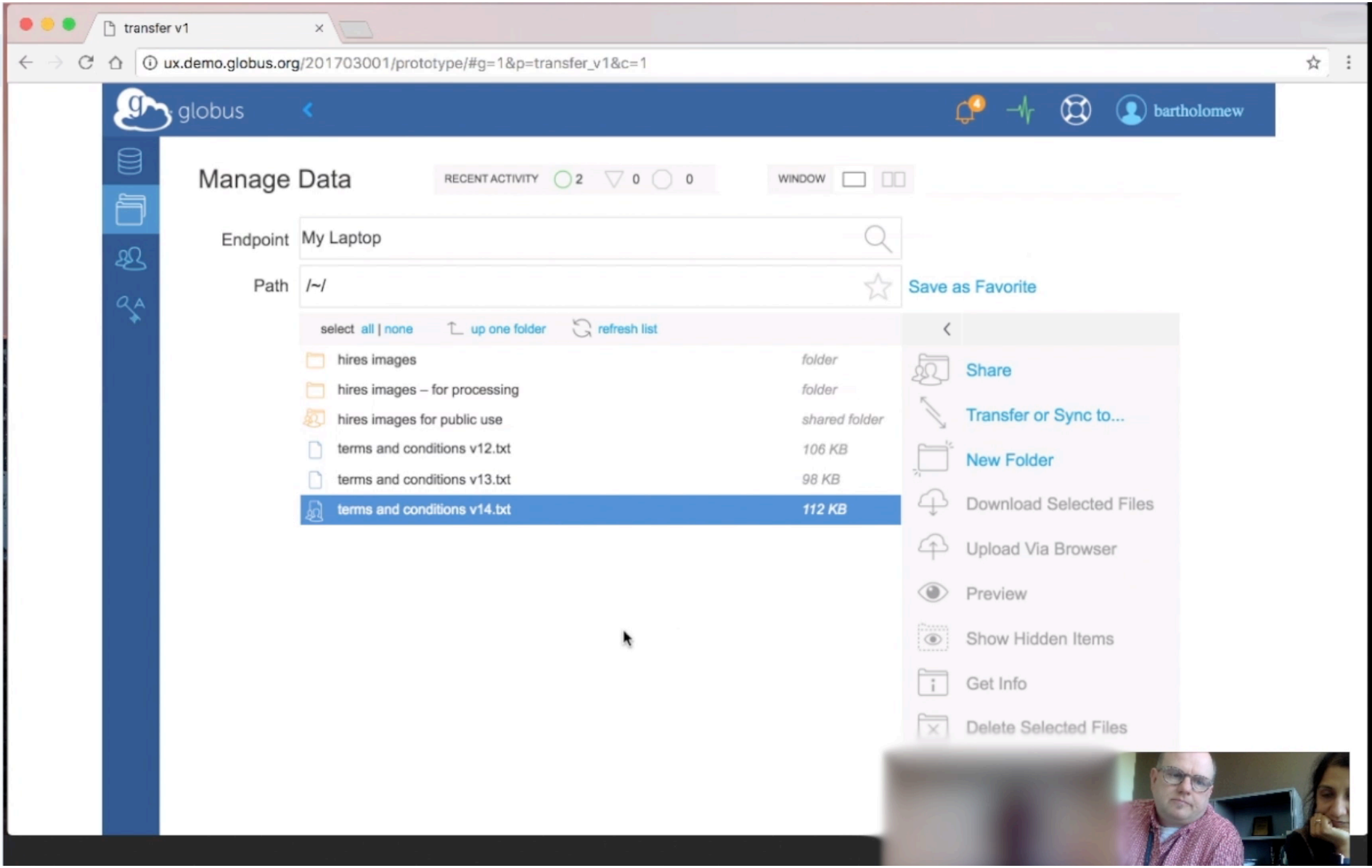


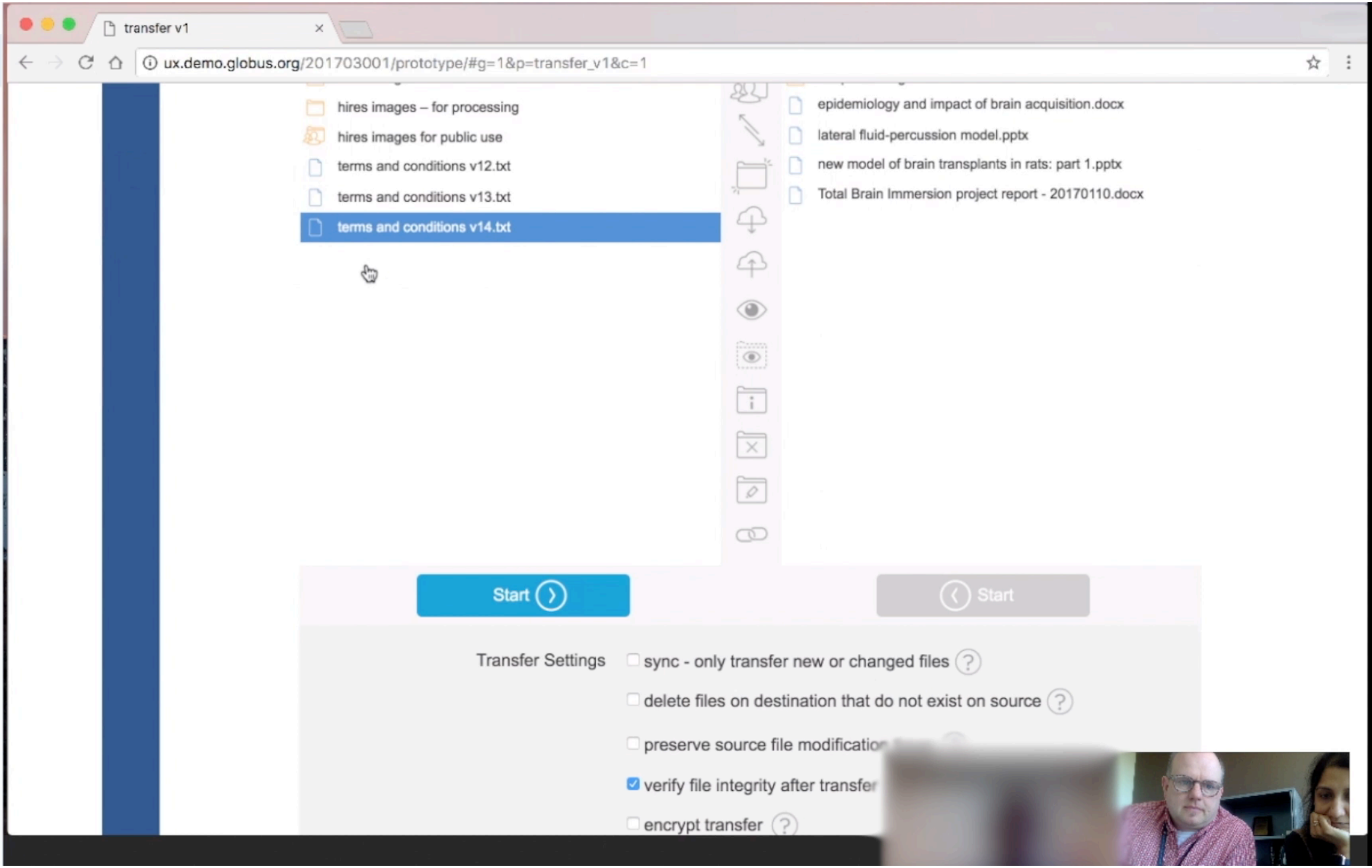
User Flows

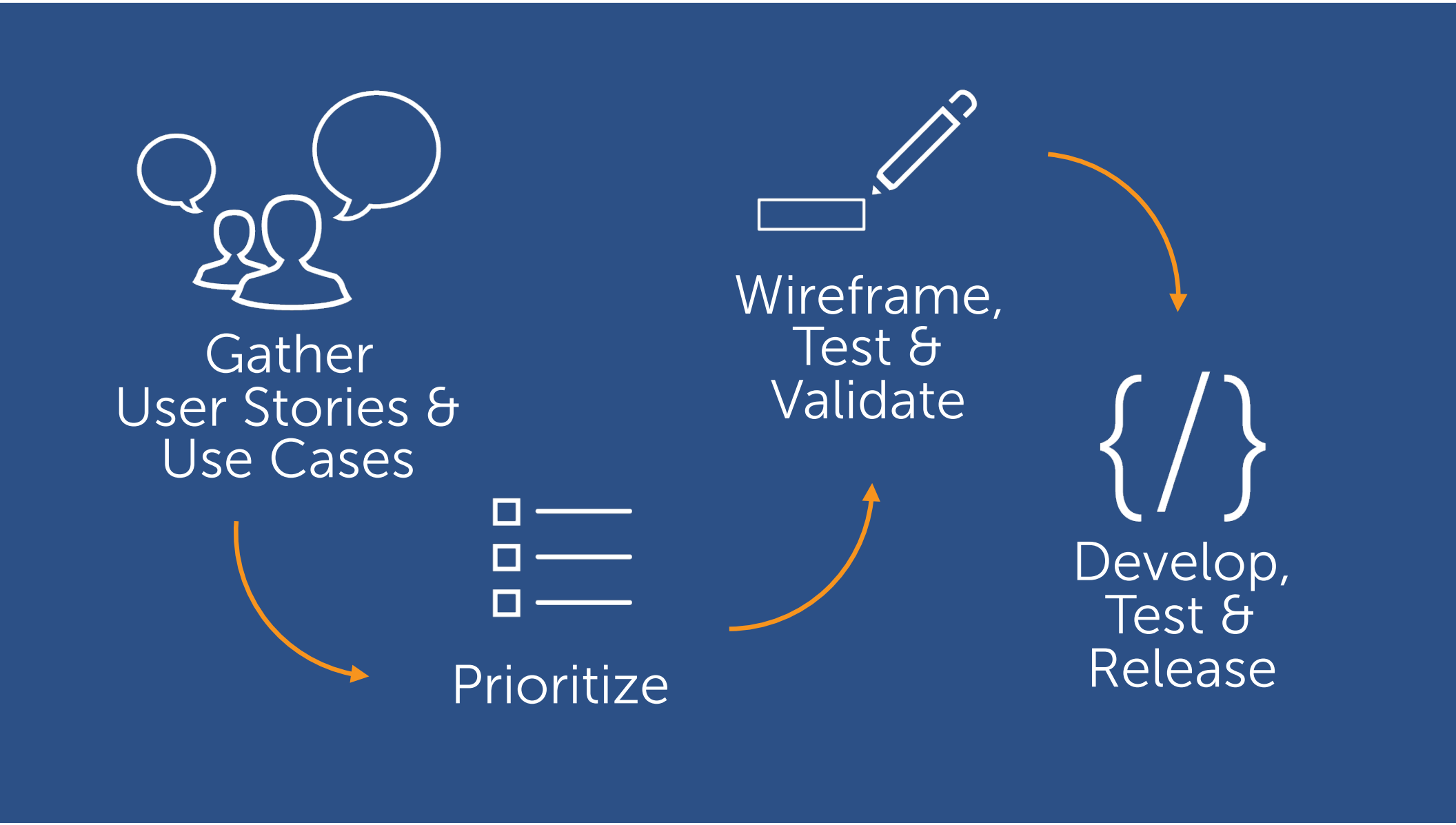

I have a Google Drive that I'd like to use with Globus
user
Fantastic! I'll send you an email with a link so you can connect your Google Drive to our RCC Globus server
local system admin
email - with link to Connect Google Drive
Is user logged in?
no
Log in (multiple pages)
yes
Is user using the required identity provider for this link?
no
Inform user which identity provider is required for this connection
yes
Log in and linking flow to link another ID (multiple pages)
Does user have a registered Google Account on this server?
yes
create share (local GCS) v1
confirmation message v1
add another Google Account
no
Register & Confirm Google Account for this server (Google)

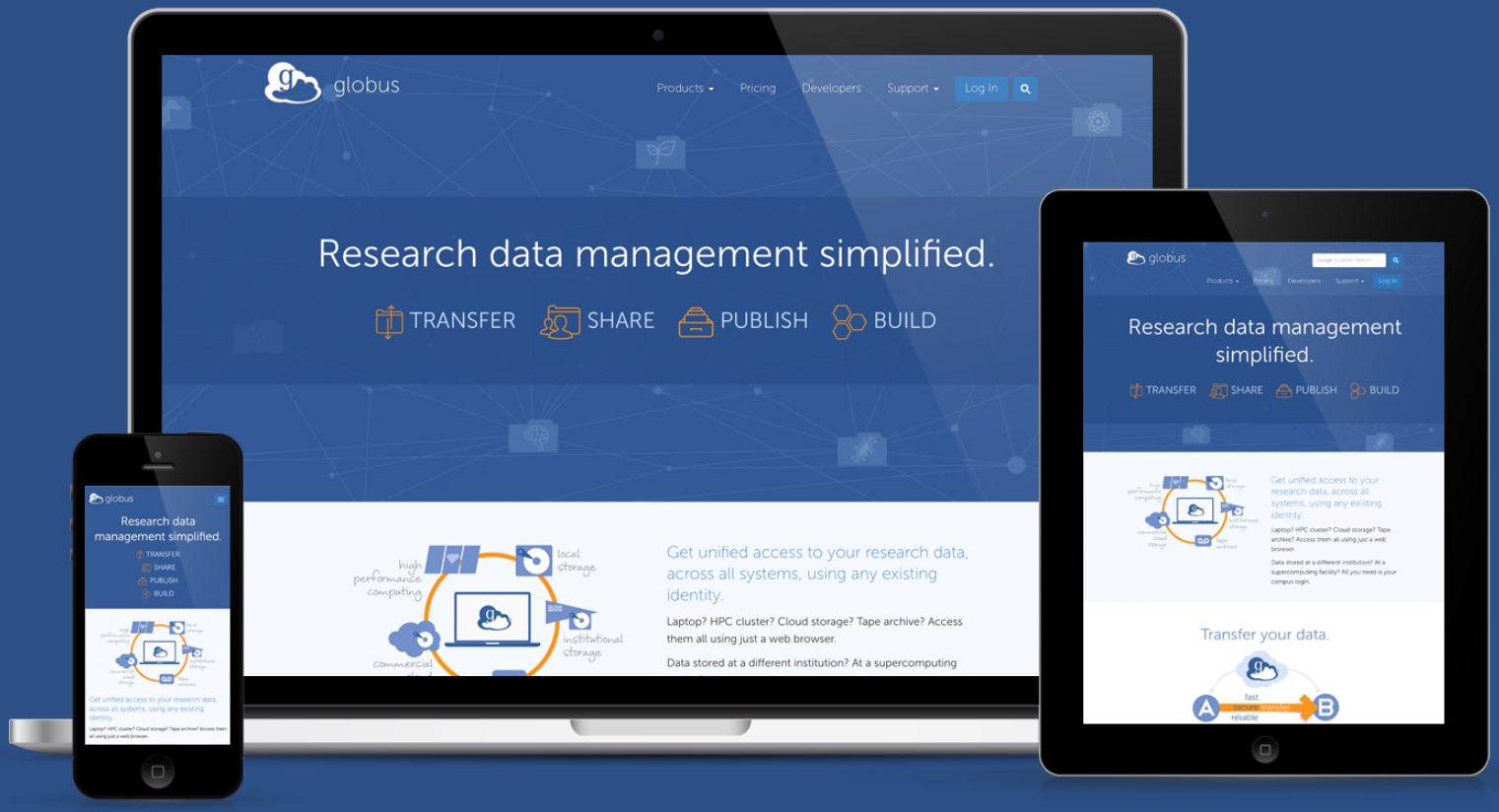
Wireframe Sample

User Testing


transfer v1
ux.demo.globus.org/201703001/prototype/#g=1&p=transfer_v1&c=1
globus
bartholomew
Manage Data
RECENT ACTIVITY 2 0 0
WINDOW
Endpoint My Laptop
Path /~/
Save as Favorite
select all | none
up one folder
refresh list
hires images folder
hires images – for processing folder
hires images for public use shared folder
terms and conditions v12.txt 106 KB
terms and conditions v13.txt 98 KB
terms and conditions v14.txt 112 KB
Share
Transfer or Sync to...
New Folder
Download Selected Files
Upload Via Browser
Preview
Show Hidden Items
Get Info
Delete Selected Files


transfer v1
ux.demo.globus.org/201703001/prototype/#g=1&p=transfer_v1&c=1
hires images – for processing
hires images for public use
terms and conditions v12.txt
terms and conditions v13.txt
terms and conditions v14.txt
epidemiology and impact of brain acquisition.docx
lateral fluid-percussion model.pptx
new model of brain transplants in rats: part 1.pptx
Total Brain Immersion project report - 20170110.docx
Start
Start
Transfer Settings
sync - only transfer new or changed files
delete files on destination that do not exist on source
preserve source file modificatio
verify file integrity after transfer
encrypt transfer


Gather
User Stories &
Use Cases
Prioritize
Wireframe,
Test &
Validate
{/}
Develop,
Test &
Release


globus
Products
Pricing
Developers
Support
Log In
Research data management simplified.
TRANSFER
SHARE
PUBLISH
BUILD
high performance computing
local storage
commercial storage
institutional storage
Get unified access to your research data, across all systems, using any existing identity.
Laptop? HPC cluster? Cloud storage? Tape archive? Access them all using just a web browser.
Data stored at a different institution? At a supercomputing
Transfer your data.
fast
secure transfer
reliable

We should free up the users' mind to work on their business not our tools.

Mikkel Bo Schmidt

Questions?

Please share your user stories
and use cases with us.

Thank-you!