# Teaching the Teachers: Providing Data Visualization Summer Institutes

**Denice Blair, Ph.D.** (MSU Museum)
**Amanda Tickner, Ph.D.** (MSU Libraries)
~~Teresa Goforth (MSU Museum)~~
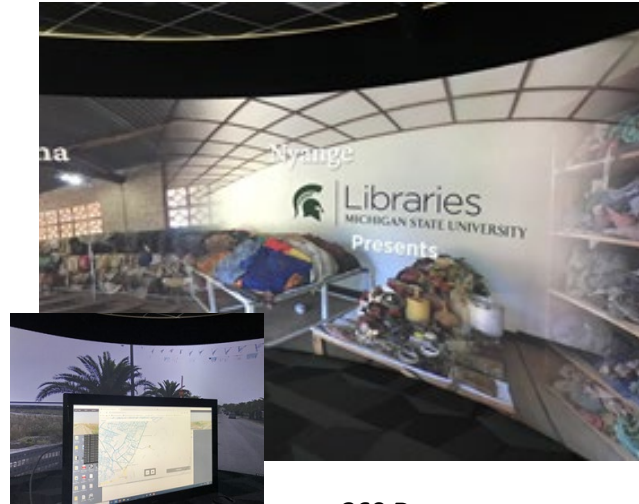
**MICHIGAN STATE UNIVERSITY**

**2020 Virtual Science On a Sphere Users Collaborative Network Workshop**

# MSU's Immersive Visualization "Ecosystem"
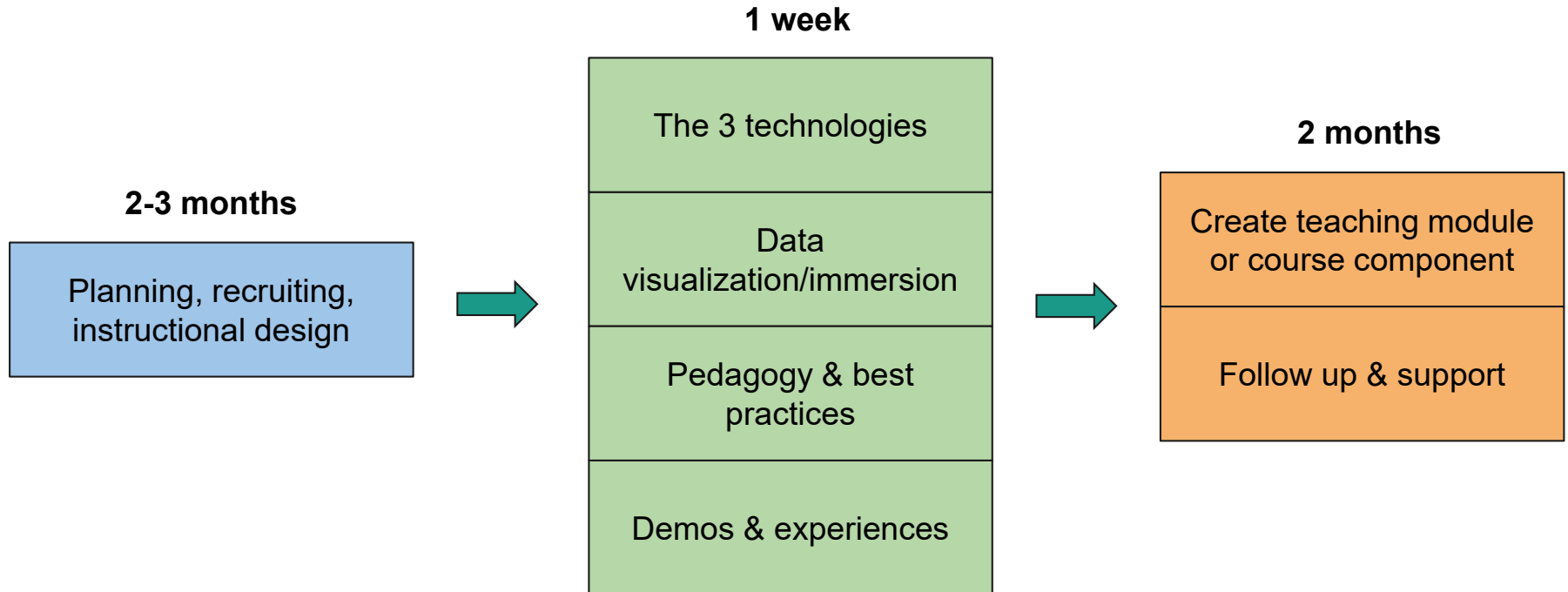## Why is this important for teachers?

**Planetarium Sky Theater**

**360 Room**

**Science On a Sphere**

# Summary Program for Grad Student Teachers & Faculty

**2-3 months**

Planning, recruiting, instructional design

→

**1 week**

The 3 technologies

Data visualization/immersion

Pedagogy & best practices

Demos & experiences

→

**2 months**

Create teaching module or course component

Follow up & support

# Quick Format for Teaching & Learning

- Provided in-depth exposure to the technologies
- Increased efficacy for teachers
- Created a network among the peers and presenters (during sessions and future)
- Explored possibilities and limitations of the technologies for teaching
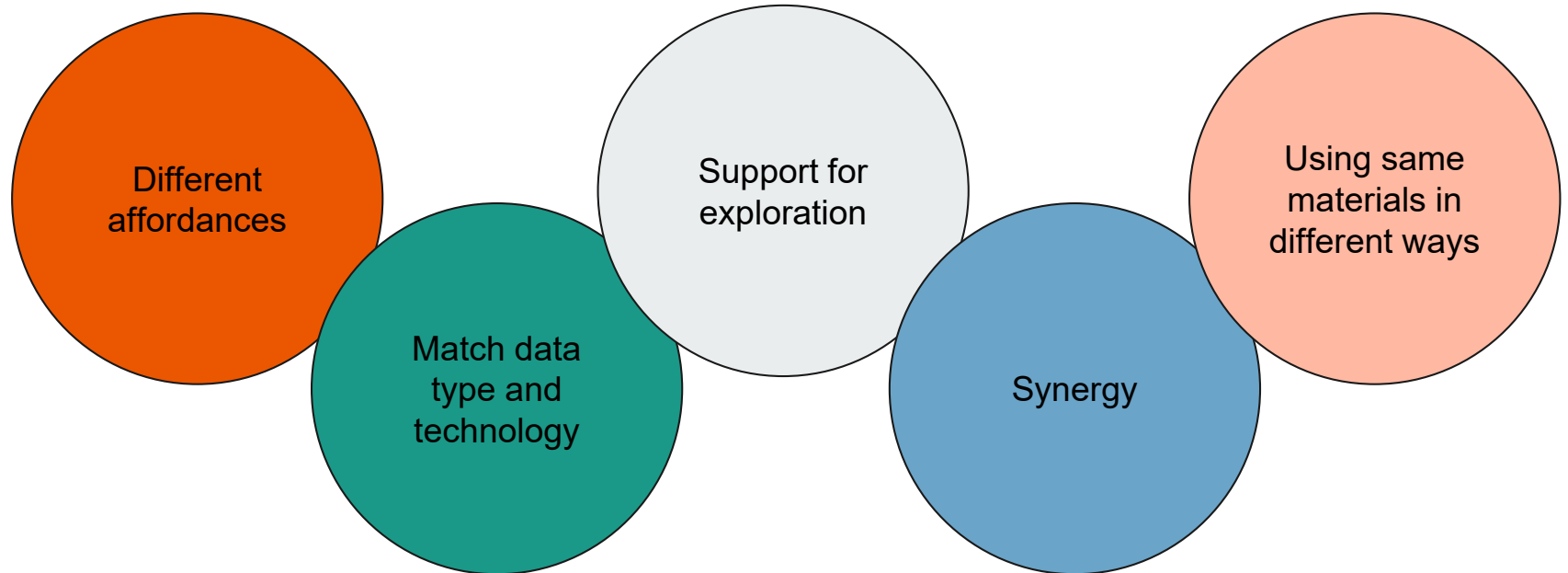


Zappar target by Stacey Fox

# In-person (2019) vs. Virtual (2020)

- **Virtual format**
  - Flexible for participants during the summer
  - Sessions recorded for review and future use
  - No transportation and transition time worries
  - Could not use technology in person - hard to envision how things work
  - Hard to assist people with technology instruction online
- **In person**
  - Better for hands-on workshops
  - Better feel for the sizes and affordances of spaces
- **Both**
  - Created community in different ways (break out rooms, etc.)
  - Instruction was (mostly!) comparable for both formats

# How an Ecosystem Can Support Teachers

Different affordances

Match data type and technology

Support for exploration

Synergy

Using same materials in different ways

# Questions?