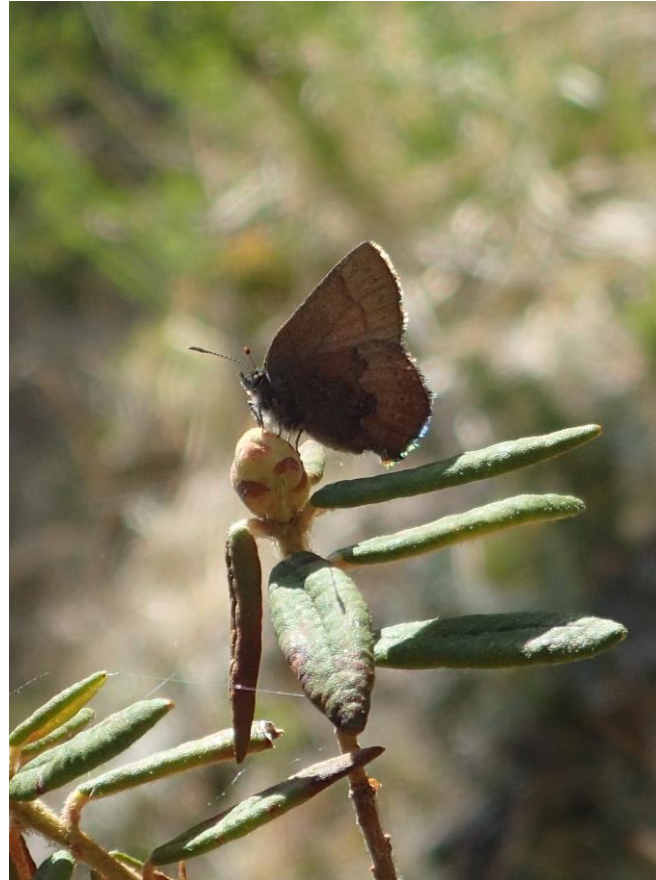


Biodiversity patterns across space and time



Federico Riva, PhD

McGill, BIOL 310

February 11th, 2022

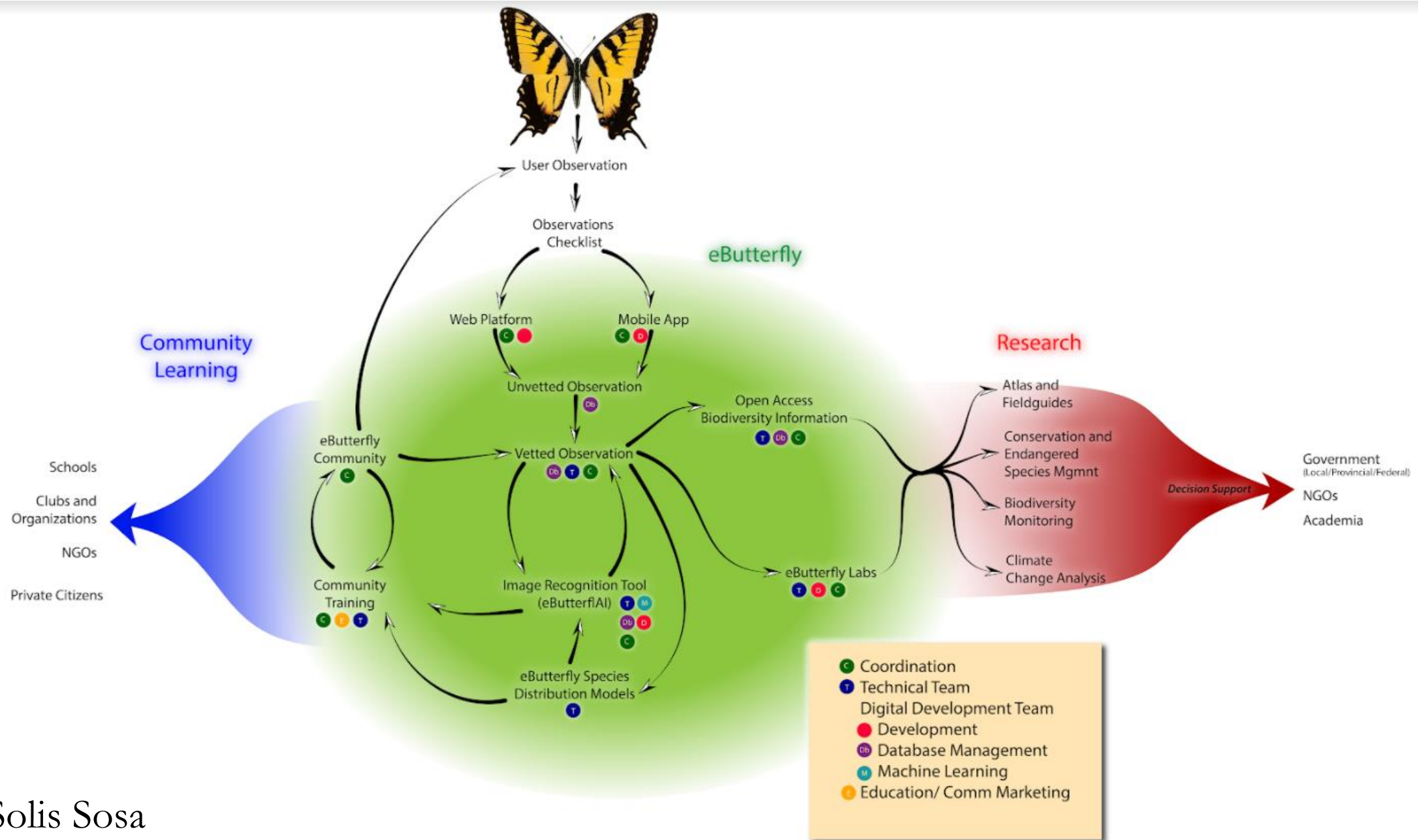
federicoriva@cunet.carleton.ca

<https://github.com/FedericoRiva>

 @riva_ecology

eButterfly

- <https://www.e-butterfly.org/>
- Community science as a frontier in biodiversity conservation
- All data analyzed today are collected by volunteers
- **Contribute – it is easy!**
- Just need to register,
- Lots of cool stuff in the pipeline
 - AI algorithm helps in identifying butterflies from pictures
 - Models of butterfly distributions used to inform which species you might see at a site



Rodrigo Solis Sosa
Human Network and Data Coordinator @ eButterfly

Steps for the last section of the tutorial (trends in frequency)

- Pick a species for your analysis (default: monarch butterfly, *Danaus plexippus*)
- Visit <https://www.e-butterfly.org/ebapp/en/observations/explore?view=species&subview=grid> and search for your species
- Where is this species found? Is it a large area, or perhaps only a small section of North America? Warm or cool?