



Snohomish County GIS User Group

Geomentor Program

Amy Lucas - Snohomish County Sr. GIS Analyst

Introduction

What is the Geomenter Program?



- Sponsored by ESRI and AAG (Association of American Geographers)
- Implemented by the Federal [ConnectEd Program](#)
 - Gives students the opportunity for hands-on education through real-world technology
- Supported by [OSPI](#)
 - Supporting website with training for administrators, teachers and geomentors

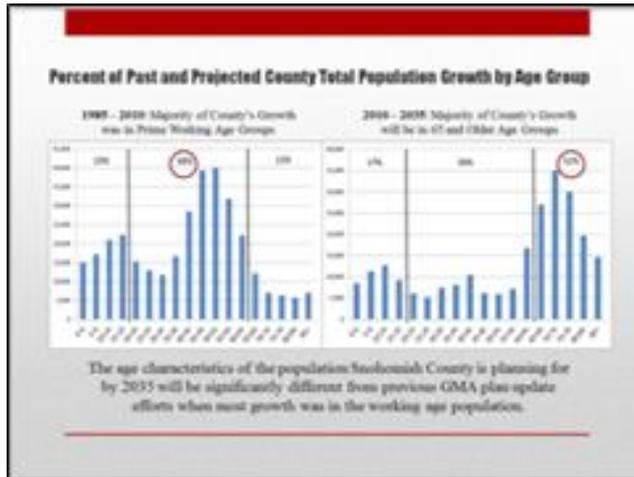
Why Volunteer?

- Help build a competitive future workforce within Snohomish County

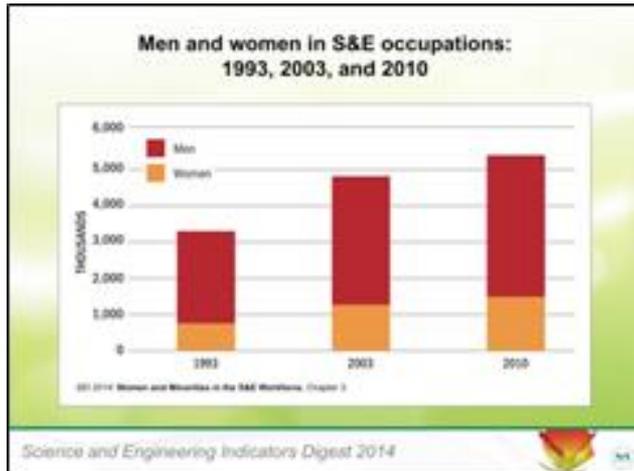
—52% of Snohomish County Population will be 65+ by 2035

- 2018 - 92% of STEM occupations will require secondary education
- Currently only 20% of students pursue STEM in secondary education

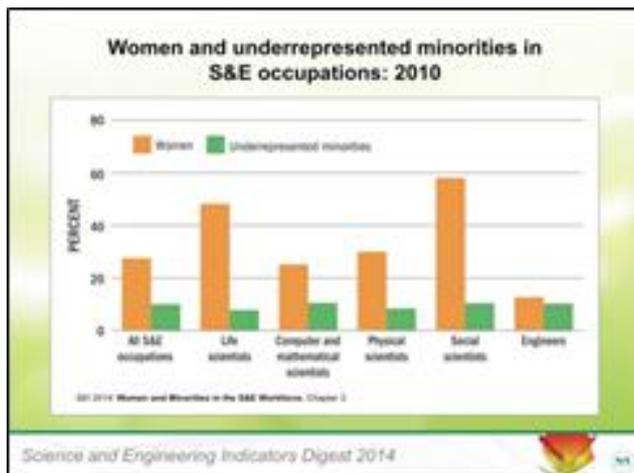
Sources: Snohomish County Planning and Development Services and National Math and Science Initiative



Why Volunteer?



- Women and minorities underrepresented within the STEM workforce
- Majority of women and minorities who begin a STEM track drop out within year 2
- [i.am.angel College Track](#)





80-SECOND VIDEOS

EVENTS

FEATURED SPEAKERS

INDUSTRIES

PRODUCTS

ALL VIDEOS



STEM & GIS in Schools with Amber Case, Charlie Fitzpatrick, i.am.angel and Roosevelt High School

Esri staff discuss STEM, K-12 education, and the important GIS work students are doing at Roosevelt High School.

Jun 28th, 2014

SnoCo Beta Test



- Attended UC again in 2014
 - 4th graders presented on GeoMentor Program
- Reached out to local school district
 - ESRI working on restructuring program
 - Charlie Fitzpatrick connected SnoCo and DSD to OSPI ConnectEd administrator
- Worked with school IT administrator and teachers via email to set up free account

SnoCo Beta Test



- GeoMentor Goal: hands-on learning
- STEM Goal: Outdoor experience
- Size: Darrington Middle School 6-8th grades
- AGOL chosen for ease of access
 - Small computer lab limited software experience
 - Created an 8 week local Hybrid of Mapping Our World curriculum

SnoCo-Planning and Development; Darrington Middle School; Glacier Peak Institute

Beta Test Program - Goals

- Introduce students to GIS
- Interactive Education
- See possibilities in STEM careers
- Understand & Connect with the

local environment/geography
(resilience/healing)

Mapping

Introduction:
Cartography
project of the
Darrington
School
Grounds



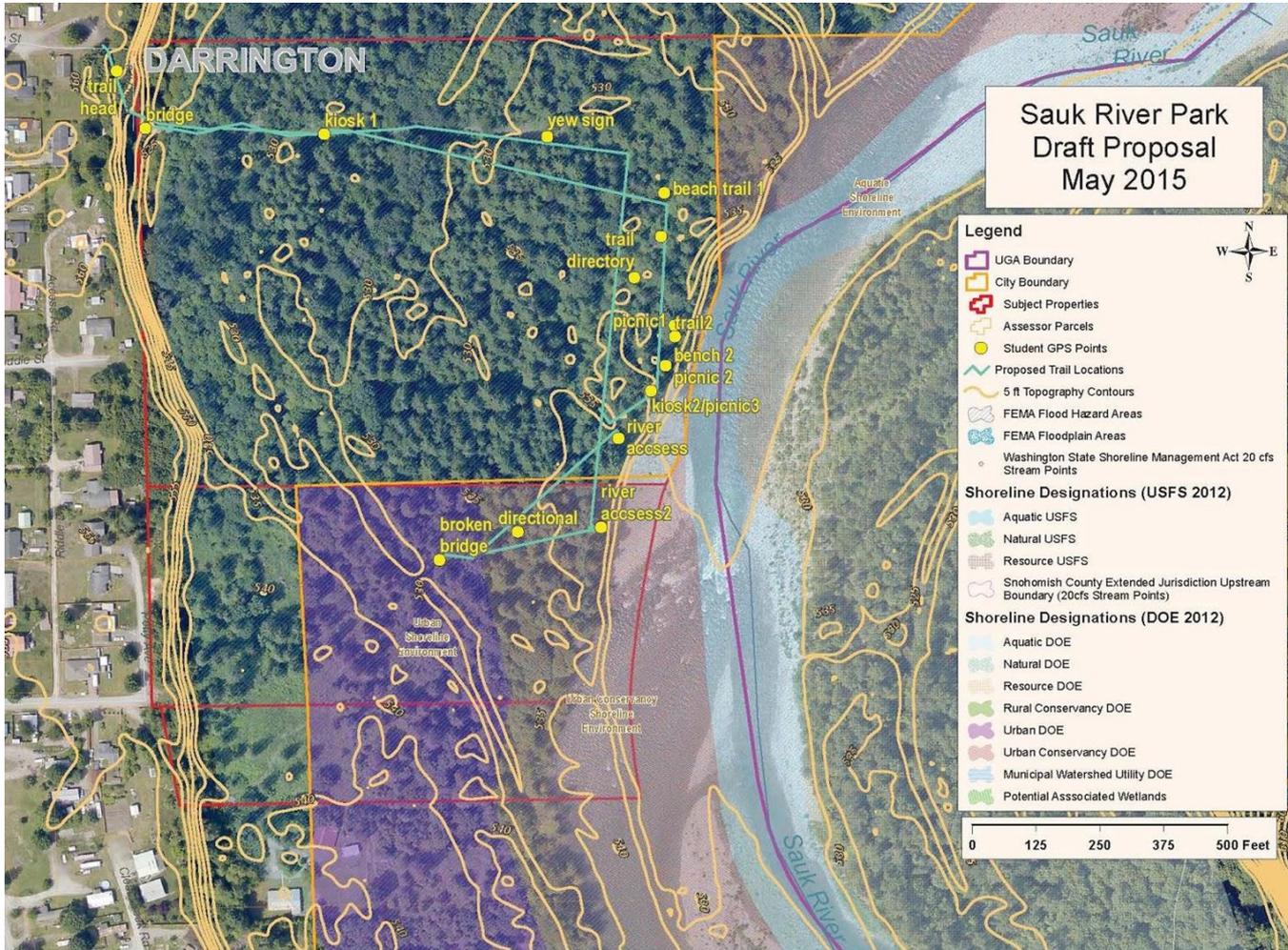
GIS Lessons

- World populations and size
- Mapping geospatial geography
- Geomorphology
- Lahar - Hazard areas

Site Visit: Sauk River Park



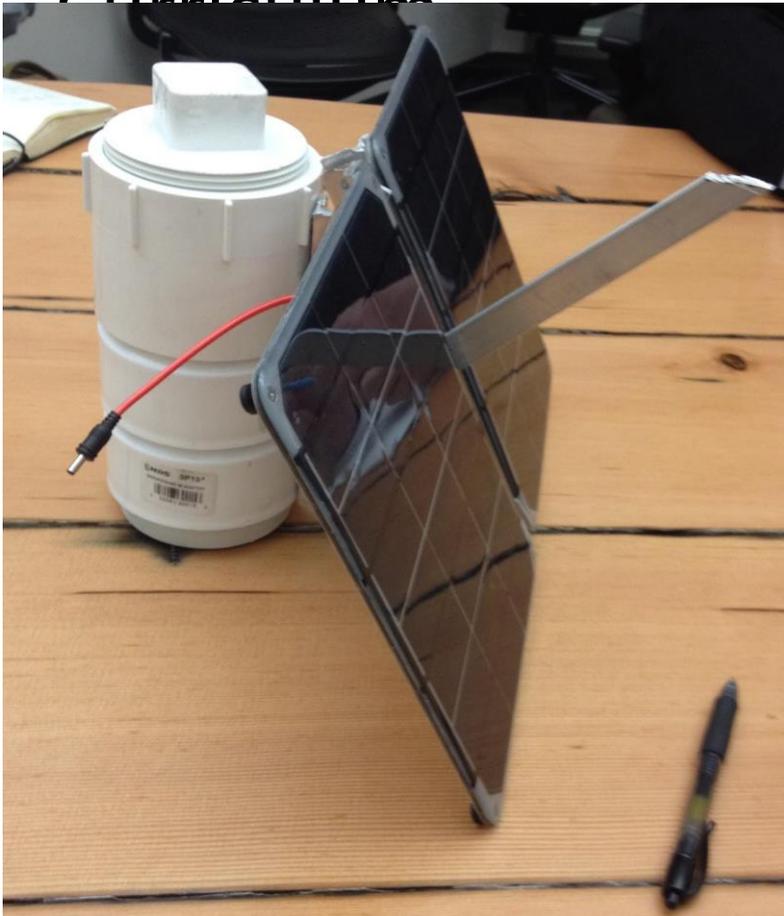
Sauk River Park



Classroom:

GIS w/ sensors to monitor remote hazards,
Park design & rehabilitation, Minecraft,
fisheries research, Partnering with urban
schools.

Curriculum



How can I start?



- Learn more by consulting the [GeoMentor site](#)
- Sign up on the [GeoMentors database](#)
- Reach out to your local school district
- Volunteer with SnoCo Parks

