

WHY collaborate?

We can't do it all alone

Diversify experiences, skillsets, and resources

Avoid fatigue

High School and College
students
Energetic
Tech Savvy
Entrepreneurial
Passionate

THE FUTURE!

In the beginning...

 Collaboration between the Plymouth Conservation Commission and Plymouth Regional High School and Plymouth State University gained traction ~ 4 years ago.



Ash Trees, Emerald Ash Borer, and Plymouth Fir...

A Story Map about fire risk in Plymouth, New Hampshire.



Deer Vs. Harsh NH Winters

Deer have a harsh time in NH winters. Many factors come into play, majorly snowfall and...



Plymouth Mountain Trails



Find a Solution, Stop Light Pollution

Light Pollution is a global problem that impacts many individuals, animals, and plant...



American Beech Bark Disease

We studied different types of issues that may effect the Plymouth, New Hampshire area. This particular project focused on the study..



The American Chestnut

A story of the past, present, and future of the American Chestnut tree.



I-Tree Eco/Canopy Showcase

This Project is for explaining the many uses of i-Tree.

PRHS Environmental Science 2018-2019 Final Projects

Plymouth Regional High School's collaboration with the Plymouth Conservation Commission began in the Fall of 2018 largely due to the efforts of Chris Buckley, a member of the PCC. Students in that year's class developed the Plymouth Consrvation Commission website as well as a variety of other projects that are shared through the gallery below. The class presented their projects and the finished website at a meeting of the Commission on May 28, 2019 held in the Bobcat Cafe at PRHS

New collaborative ties...





Community Conservation Cohort 2021-22

- Amy contacts TAFW Amanda
 Stone seeking opportunity to engage as an interested citizen
 - Biweekly workshops in Fall
- Plymouth Conservation
 Commission group identifies CCC
 project priorities



SECTION SECTIO





The stars align...

Plymouth Conservation Commission identified need for updated Natural Resource Inventory & a Trails Assessment scorecard/process

- NRI offered GIS learning and engagement opportunities for Plymouth Regional HS students
- NRI offered GIS and technical writing opportunities for PSU students
- Trails assessment framework and scorecard provided opportunity for students passionate about outdoor recreation to apply their scientific knowledge



Develop shared objectives and timeline

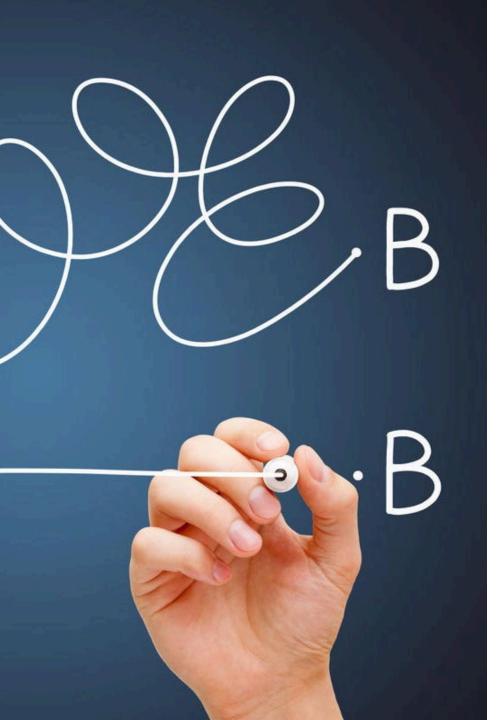
- Be realistic -Time
 - What are the priorities? Break into phases.
- **Be realistic** Knowledge & Experience
 - Trade-offs: Free of cost, but some support is needed
- Be realistic Deliverables



Avoid too many cooks...but avoid operating in a vacuum

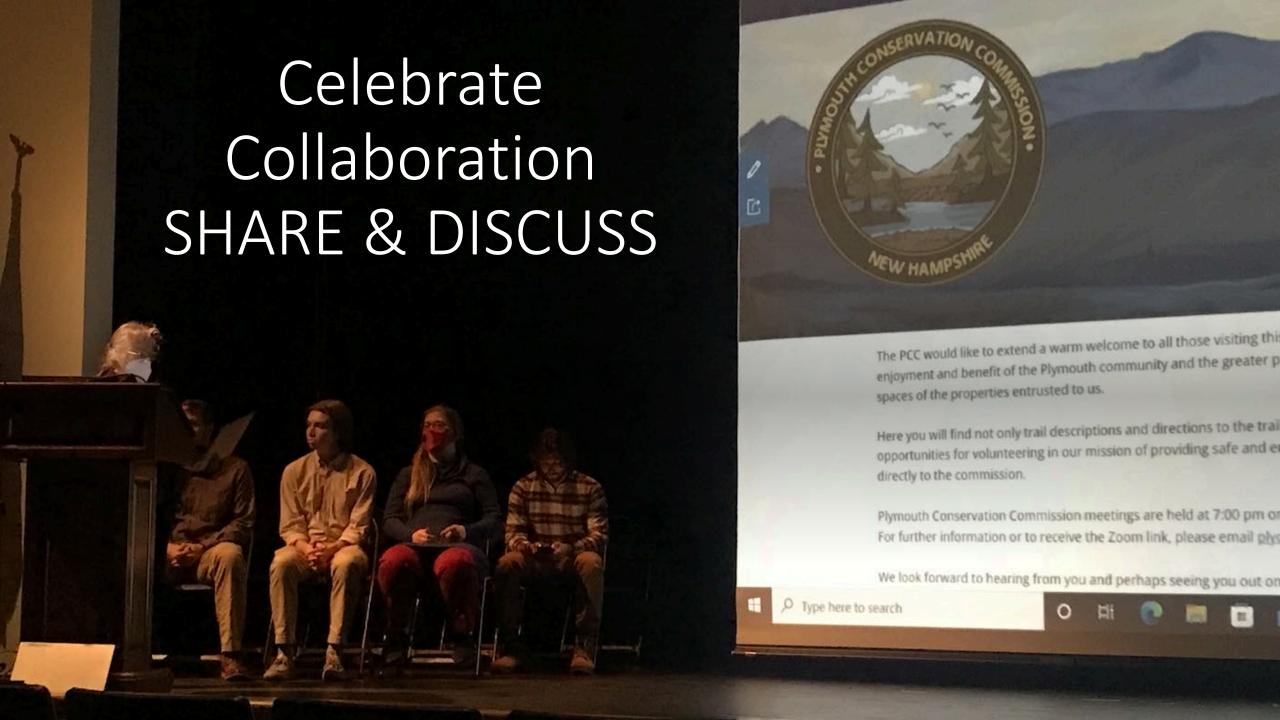
Identify key roles

- Amy was advisor on Plymouth State
 University GIS and Writing Natural Resource
 Inventory (NRI)
- Ina was advisor on PRHS GIS NRI team
- Conservation Commission member and Amy co-advised PSU Trails Assessment team



Keep It Simple (KISS)

- Avoid overcomplicating tasks
 - Collaboration between teams (e.g. PRHS and PSU) was ideal, but very hard to schedule
- **Build resilience** don't rely too heavily on single BIG meetings. Go for base hits rather than homeruns.
- Be Adaptive

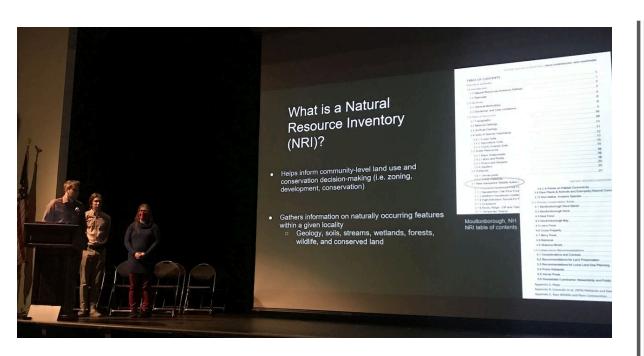


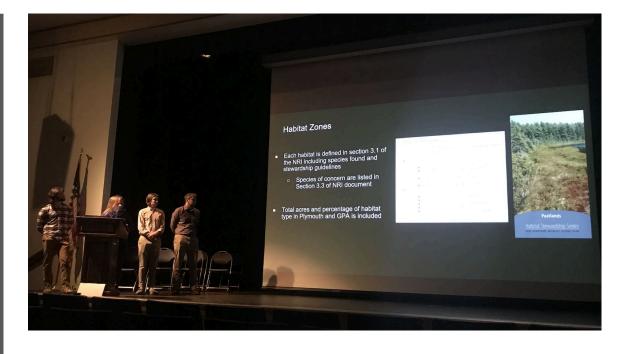


Let's Dive in and Explore the Many Products of Collaboration!

Natural Resource Inventory Wildlife Section

GIS Analysis & Report Writing





Comparative assessment of Town Conservation Areas

6023

2.107

22.4

5369

10

13

11777

59.3

2682

55.6

37.9

10979

Town

Tier 1 Acres

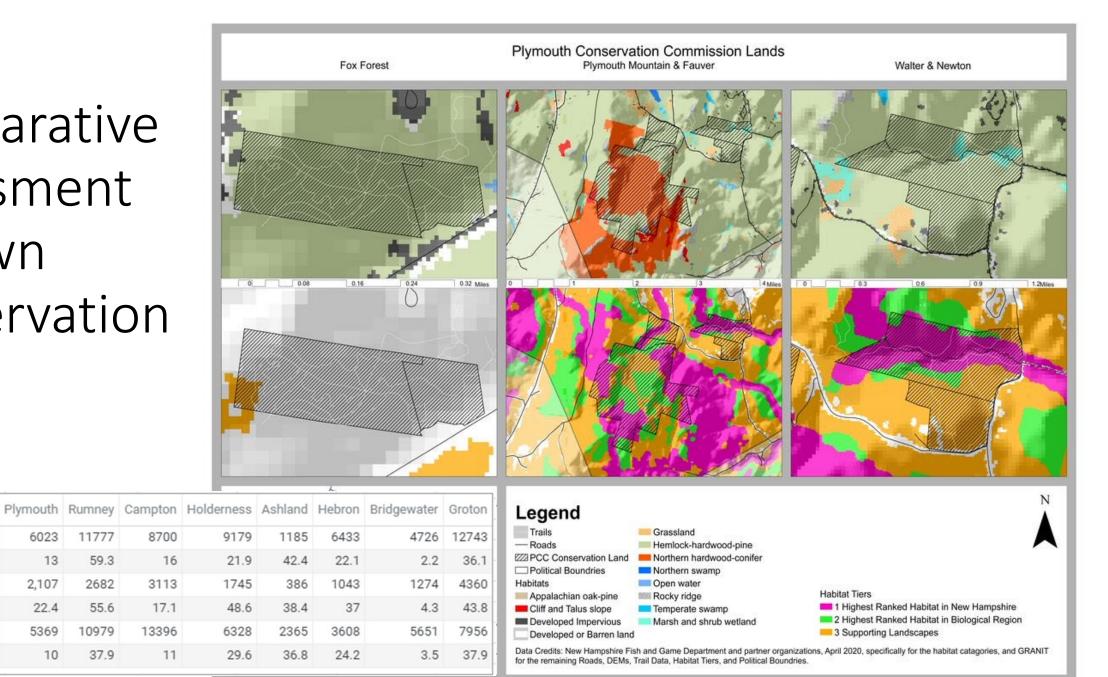
Tier 2 Acres

Tier 3 Acres

% Conserved

% Conserved

% Conserved



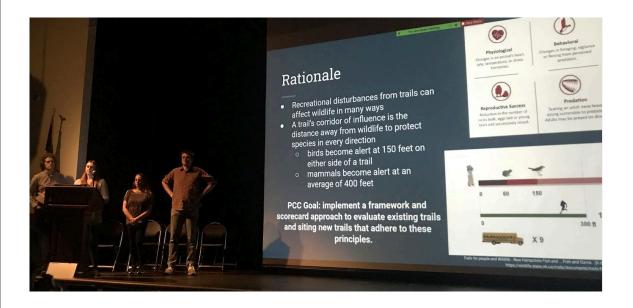
		Plymouth	Greater Plymouth Area
	Total Acres	18,233	143,521
Appalachian-oak-pine forest	Acres	1007.9	2331.4
	Percent	5.53%	1.62%
Cliff and talus slopes	Acres	326.6	1544.3
	Percent	1.79%	1.08%
Floodplain forest	Acres	72.7	4630.3
	Percent	0.40%	0.21%
Grassland	Acres	1230.9	4074.2
	Percent	6.75%	2.28%
Hemlock-hardwood-pine forest	Acres	11150.4	295.
	Percent	61.16%	50.32
High-elevation spruce-fir forest	Acres	0	3268
	Percent	0%	0.4
Lowland spruce-fir forest	Acres	0	722
	Percent	0%	
Northern hardwood-conifer forest	Acres	1474.1	
	Percent	8.09%	
Northern swamp	Acres	33.2	
	Percent	0.18%	
Open water	Acres	282.2	
	Percent	1.55%	
Peatland	Acres	61.8	
	Percent	0.34%	

Compared wildlife habitat availability and conservation within and across adjacent towns

Trails Assessment

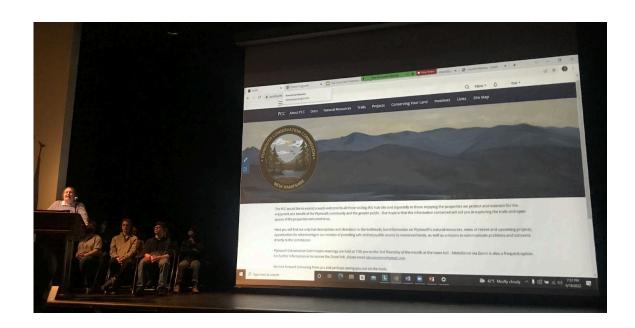
Experience, Research, Synthesis & Critical Thinking

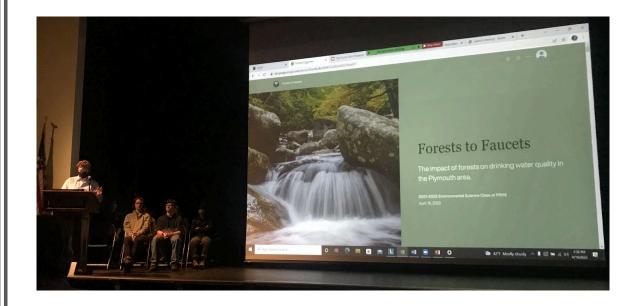




Watershed Perspectives

GIS Data Management and Online Communication

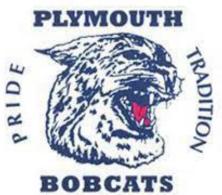




Environmental Science Final Projects
Plymouth Regional High School









The End...

is just a Beginning

"The commitment and enthusiasm of the two groups of students exceeded expectations and resulted in successfully reaching the goals of both projects, while demonstrating the power of community engagement and collaboration, and engaging the next generation of stewards. Other NH communities can consider the benefits of engaging with students at local colleges to assist with their conservation work."