Conversations about

Data Science for Social Justice (DS4SJ)

bringing community co-developed social justice data projects into the classrooms

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Pitt Data Science Task Force Recommendation (2021):

Challenges

- 1. Expertise are hidden within silos, inaccessible to many
- 2. Absence of visible scaffolding / framework to bring focal point
- 3. Educational content on responsibility, ethics and workflow lacking

Despite the widespread nature of data science at the University, the DSTF noted that many were not aware of the activities. More challenging, barriers to entry are impeding some disciplines from accessing even adjacent data science expertise: we anecdotally discussed and heard about significant interest but also sensed that many researchers and educators are unsure of how to engage with data and data methods, even though they want to do so. Faculty have ideas for ground-breaking uses and innovations with data and associated techniques, but the existence of domain silos and the absence of visible and legible scaffolding has been an obstacle to many of these reputation-enhancing projects. There is opportunity to leverage and share knowledge given the range of expertise and interest. In essence, many puzzle pieces exist throughout campus, and they should be put together into a comprehensive framework to bring about a focal point of data science. Subgraphs of related expertise need to be intentionally connected and supported between disciplines, illuminating new pathways of data science uses and breakthroughs. This observation reinforces the charge put forth by the Provost: we found that several capabilities exist that could be put together to make the sum of the parts greater than the whole.

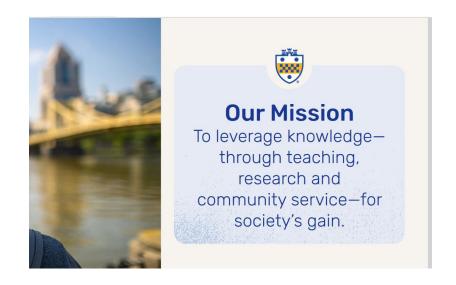
2.4 Human Resources will be Key to Success

Finally, not only do data capabilities exist on campus, but the interest of researchers, educators, and practitioners to forge a community, place, and organization to act with intention and coordination also exists to leverage and amplify data science. This level of interest could be powerful for recruitment, retention, and development of faculty, students, and staff. The framework recommended by the DSTF reflects this observation: much of what we propose involves supporting and developing human resources, and gathering them into a "community of the eager". One respondent to the survey of department chairs wrote, "within one school our bench is small and we would love opportunities to collaborate with other departments who have other skills." From the DSTF's own discussions and social networks, this seems to be a commonly held view. In fact, within the Data Science Task Force itself, several members expressed interest to start working on the recommendations right away, such as developing shared curricula or

Proposed Solution:

Nurture a "community of the eager" around responsible, use-based data science.

Plan for Pitt (2021):



by nurturing a diverse, accessible "community of the eager" around responsible, use-based data science.

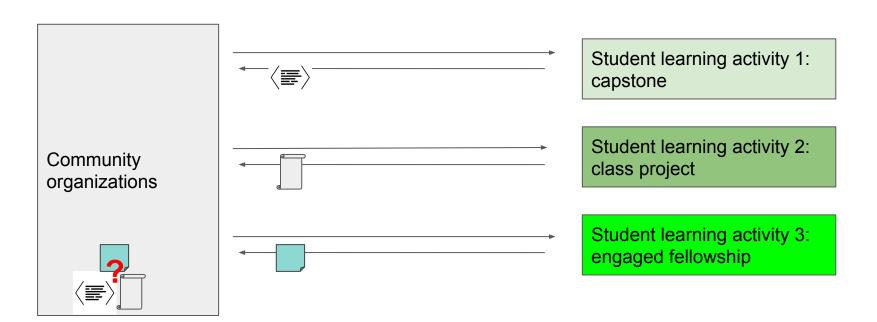
But what should we build this community around?

- Research?
- Community service?
- Student learning?

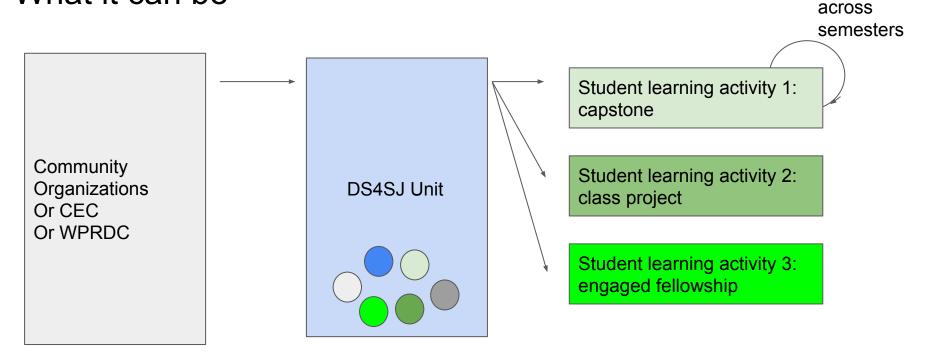
How CAASI connects community needs to student learning

	Community needs	University community rel.	Experiential Learning	Faculty	Students
Incentive	Solve practical prob	Long term relationship	Connect stu dents-comm.	Research / Teaching	Grades
Timeline	Open	Open	Semester	Semester	Semester
Discipline	Beyond disciplines	Not primarily student facing	Within a school	Single (e.g CS)	Single (e.g CS)
Disciplinary expertise	No	No	Some	Yes The	DS4SJ Project
Context	Very important	A lot	More	Theoretical	Little

Current: has to go through this process every semester

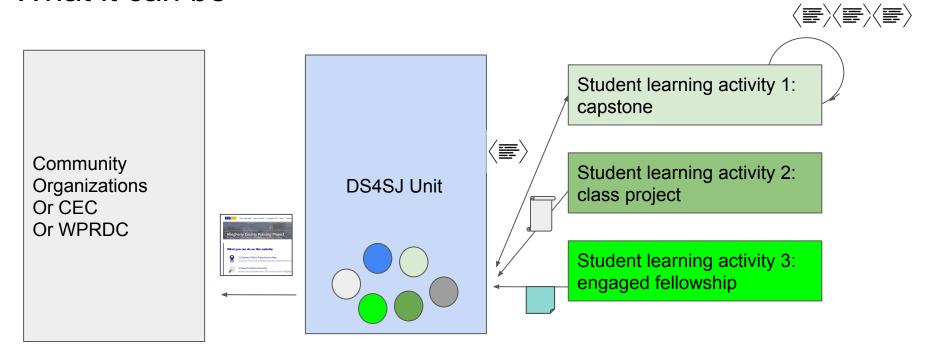


What it can be



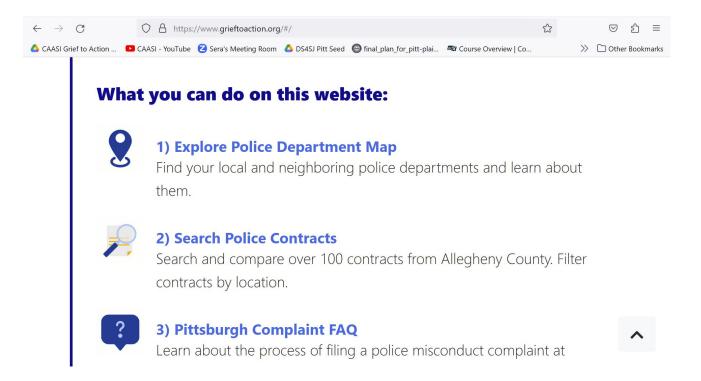
an integrated clinic of multidisciplinary experiential experience co-led with students.

What it can be



an integrated clinic of multidisciplinary experiential experience co-led with students.

Example: Allegheny County Policing Project (ACPP)



http://grieftoaction.org

The issue: community requests & members' experiences



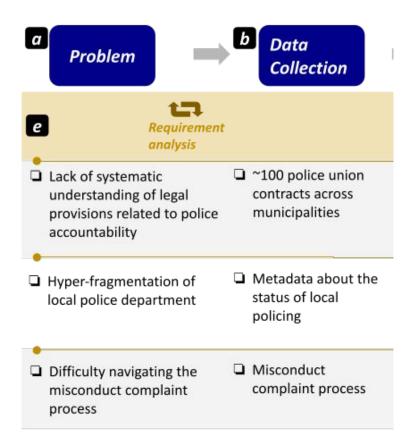
POLICE DISCIPLINE PROCEDURE

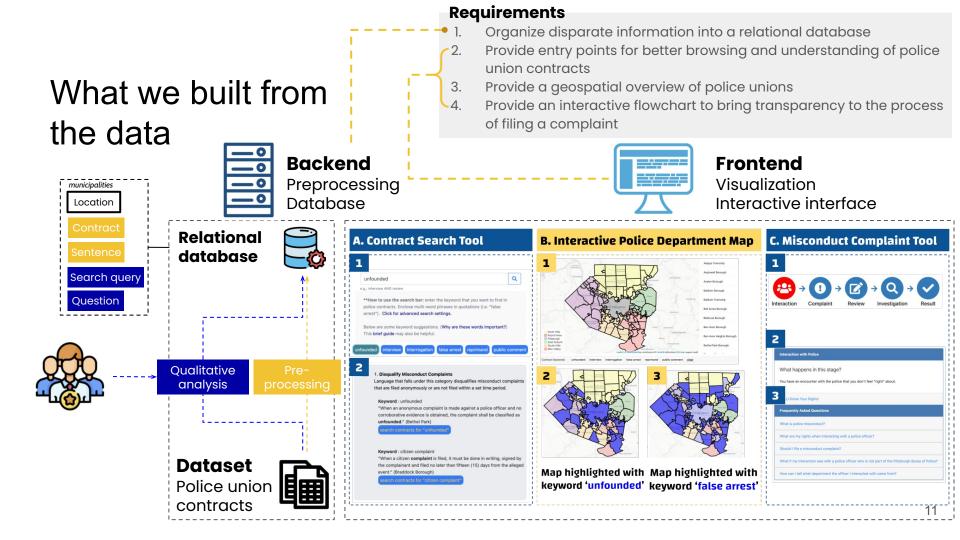
SECTION 19 - POLICE DISCIPLINE PROCEDURES

- All disciplinary action will be initiated through the preparation and filing of a
 Disciplinary Action Report, copies of which shall be given to the Police Officer,
 and to the FOP
 - 2. Within fourteen (14) calendar days after the Disciplinary Action Report goes through the chain of command and is signed by the Chief, there will be a meeting (referred to as the initial meeting) between the Police Officer and the FOP with the Director of Public Safety or his designate and the Chief or Assistant Chief. At this meeting, the City will describe the basis for the proposed discipline and describe in summary fashion the evidence upon which it is based. The Police Officer will be given an opportunity at this meeting to respond to the charges against him or her.
- 3. Within fourteen (14) calendar days after the initial meeting, the Director of Public Safety will decide whether or not to implement the proposed discipline, and notify the Police Officer and the FOP of his decision. If the discipline is to be implemented, suspensions with intent to discharge will be effective immediately. Discharges following such suspensions and all other disciplinary actions will be effective after the decision following the internal hearing described below, if one is requested. If an internal hearing is not requested within the specified time limits, the Director may implement the discipline immediately.

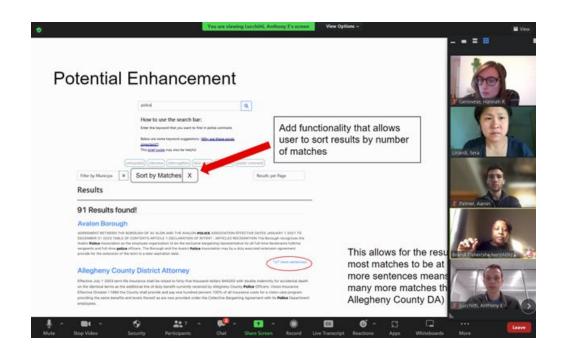


What we did: translate ground-level issues into data strategy and crowdsourced data collection





What students & community leaders get out of it



"Creation of socially impactful tools that I actually care about outside of my grade."

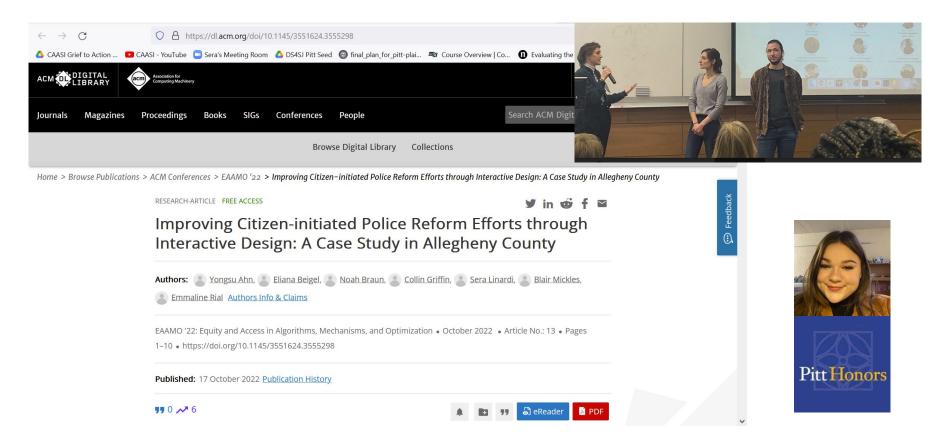
"Real World Experience! Everything we did from building team to deploying the project was all vastly different from any kind of classroom experience"

"While I am not at all technologically inclined, I feel I may have found my calling through this multidisciplinary approach."

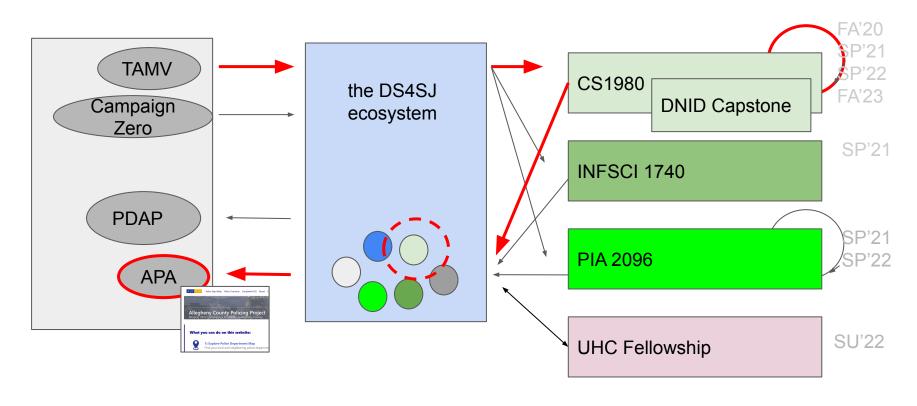
"I talked about this in all my interviews."

"Huge thanks to Grief To Action for listening to our call and responding. " TAMV

Outputs: mentorship, presentations and publications

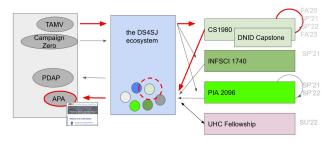


Bringing community projects to the classroom



Conversations

Bringing community projects to the classroom



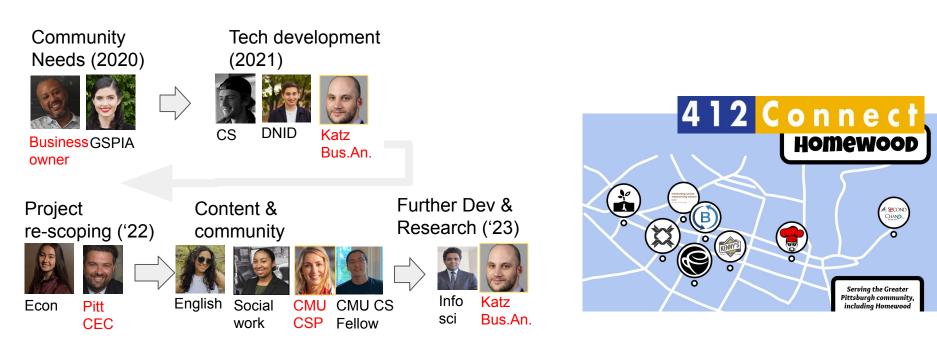
Introductions and roles

Expectations: students, student leaders, community, faculty

Scoping: what makes a good classroom project?

Timeline: how long do things take?

Another example: 412Connect - Community Assets Scavenger Hunt



"CAASI projects are extremely unique. I interacted with students from different degree programs, faculty, staff, and local business owners...I would definitely recommend this project. Not only is it a huge learning experience for real-world practices in the field, but also the project itself is very rewarding seeing the work you put in being used to help others in your community." Tyler Olin, Digital Narrative and Interactive Design, 2021



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Our theory of change:

- 1. We don't directly act on issues of social justice; we **offer resources to grassroots orgs** to build capacity around data to pursue their own theory of change
- We respond to community requests holistically; we aggregate resources from across campus to go beyond disciplinary boundaries to provide what the orgs need.
- 3. We **raise awareness** by offering space for students to grapple with questions raised by these orgs within their classwork.
- 4. We offer opportunity for students to hone **advanced leadership skills** through experiential learning and coordination of experiential learning opportunities.

SP'23 Cohort seek to answer:

What are procedures and criteria to:

- a. Scope and co-design data projects with the community?
- b.Recruit and incentivize faculty and students for the DS4SJ unit?
- c.Involve a course in the DS4SJ initiative?
- d.Match student capstone teams?
- e. Train, supervise and incentivize student leaders (students and volunteers)?