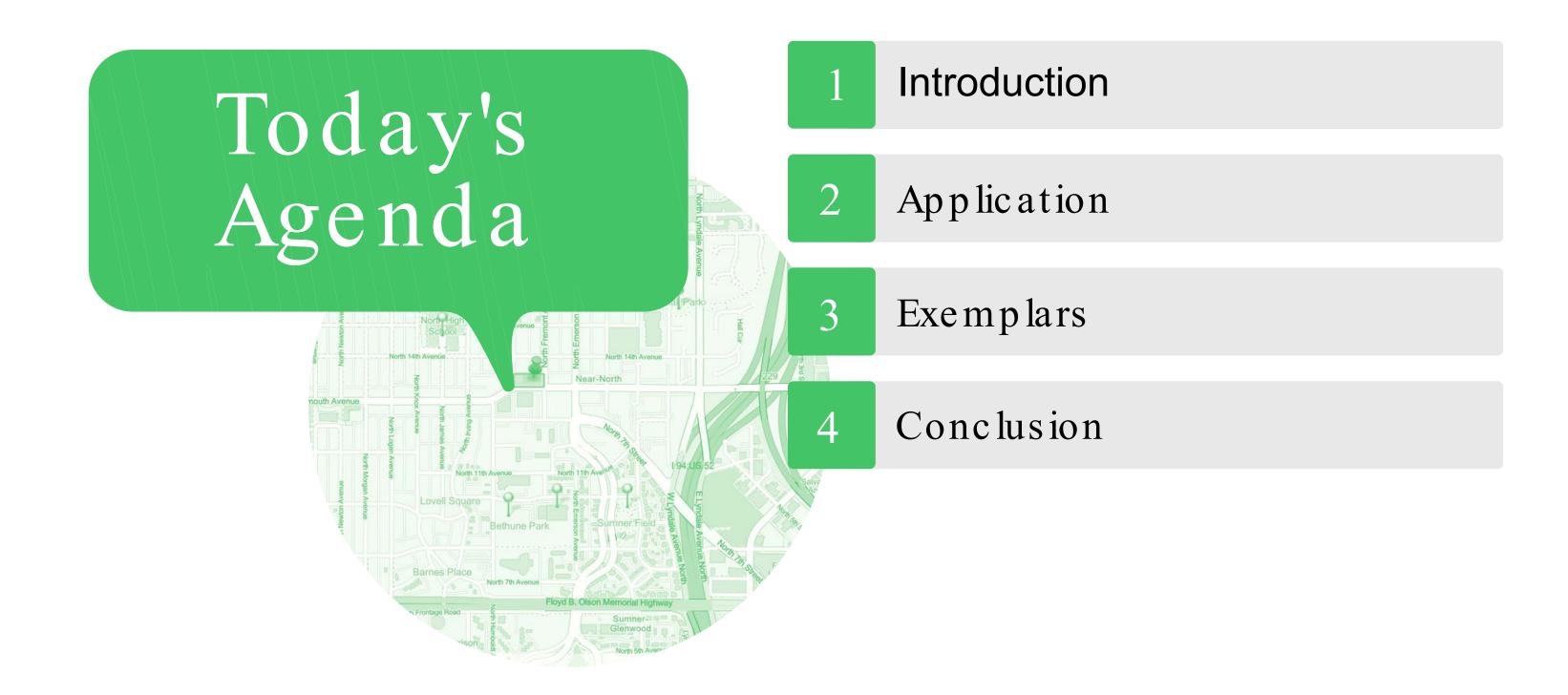




Abimbola Asojo, Ph.D. & Hoa Vo, M.F.A. College of Design, University of Minnesota



Introduction

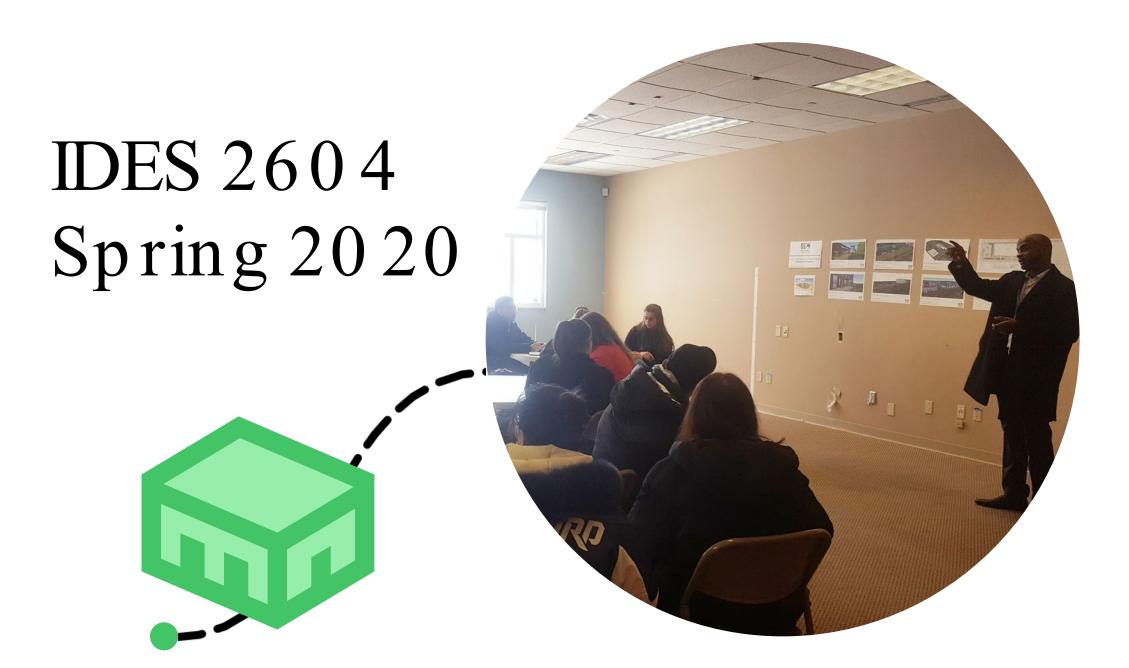
Jamez Staples, the founder of Renewable Energy Partners, invested \$1.5 million in a STEM center for underrepresented youth in the North Loop area, _. Minneapolis.



Jamez Staples

A \$ 1.6 million grant was awarded to this project [1].

Image @Startribune

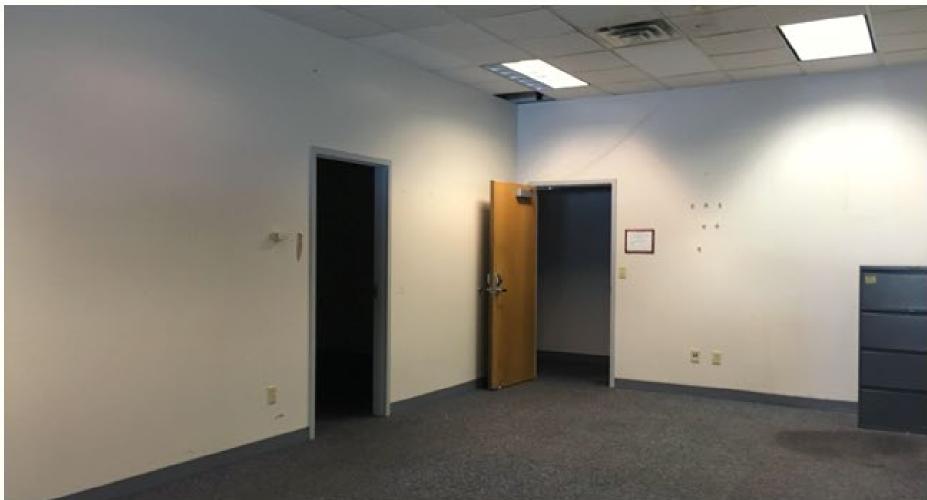


STEM center (10,870 sq.ft.), 150 middle and highs chool students, 7 spaces.

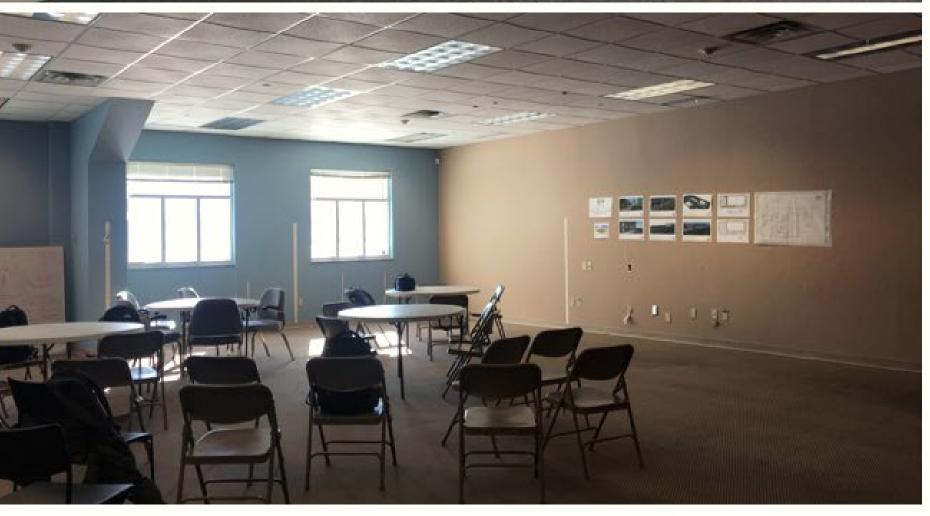
- Sophomores in the Interior
 Design program, University of
 Minnesota.
- Weeks of concept and schematic, design development, construction document, and presentation.

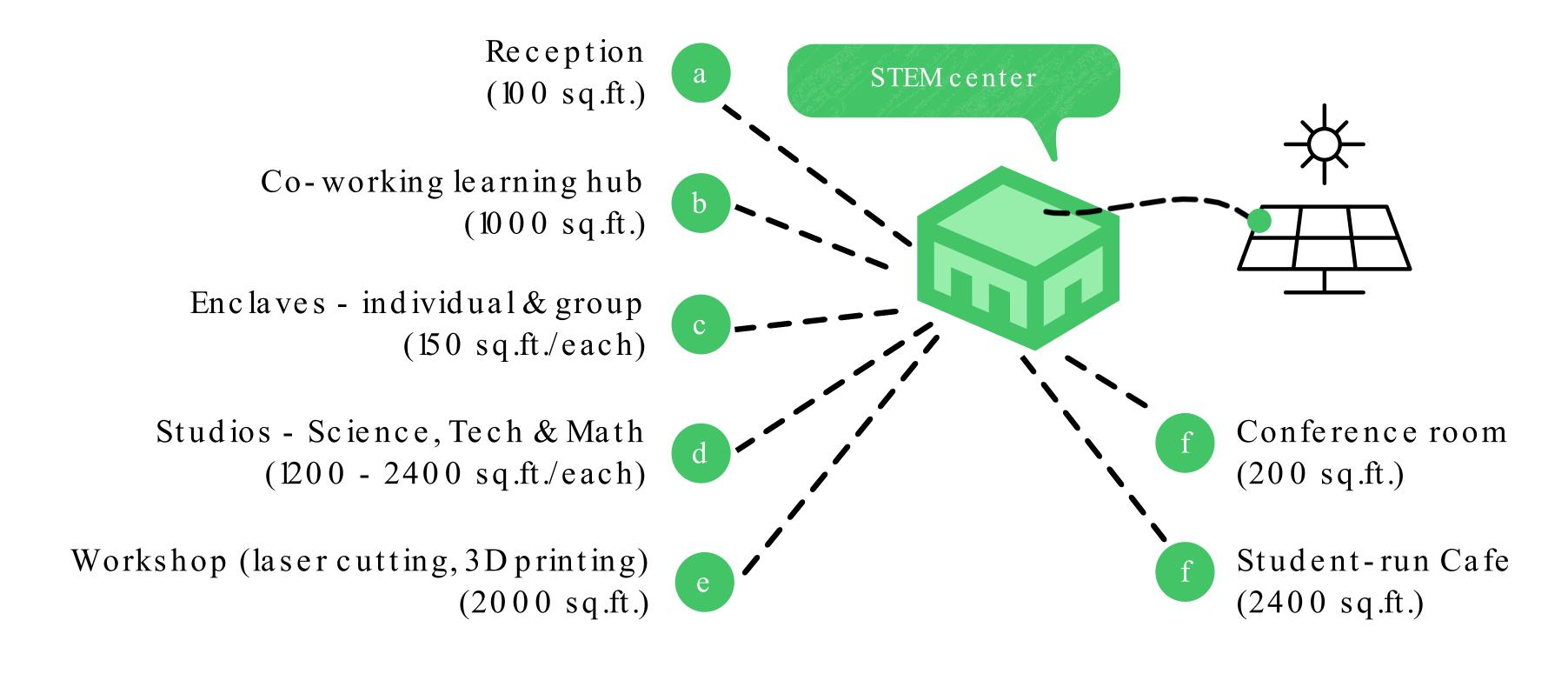
1200 Plymouth Avenue North, Minneapolis, MN 55411













Jamez Staples

...I wanted to create economic opportunity for people who have traditionally been left behind.

Images and quote@CERTs [2].





Application

ArcGIS and StoryMaps helped students research and present their design solutions.

Students attended two workshops with hands-on exercises from the U-Spatial office to learn ArcGIS/StoryMaps.







StoryMap

IDES 2604

Concept & Schematic

Design development

Presentation

Arc GIS

ESRI Database:

Racial makeups

Occupations

Age groups

Transportations & facilities

Enrichment:

Travel distance from the building venue

BIM

Building Information Modeling (BIM):

Revit

Enscape

AutoCAD

Stakeholder:

Feedback sessions with Jamez Staples

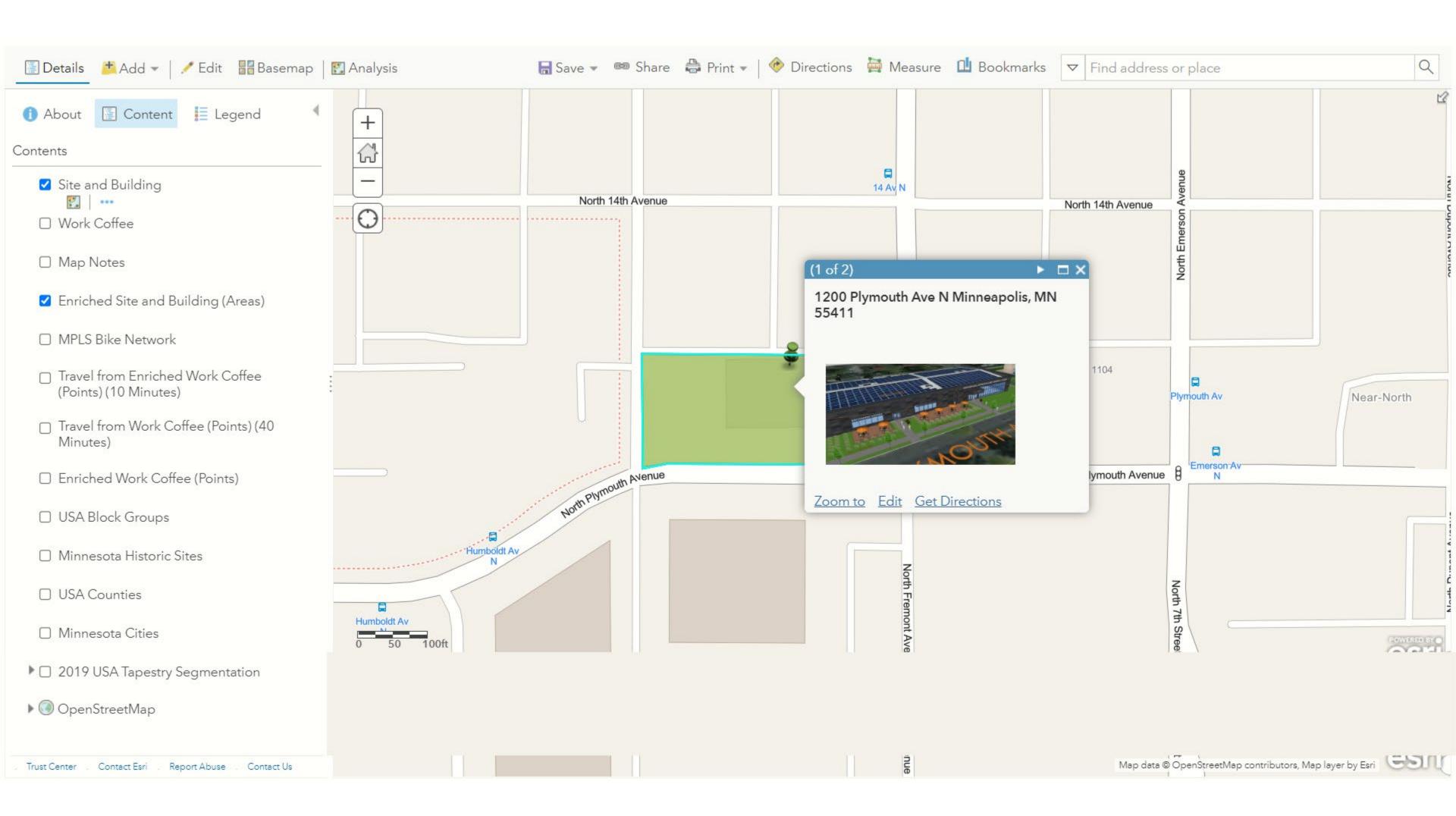
StoryMaps

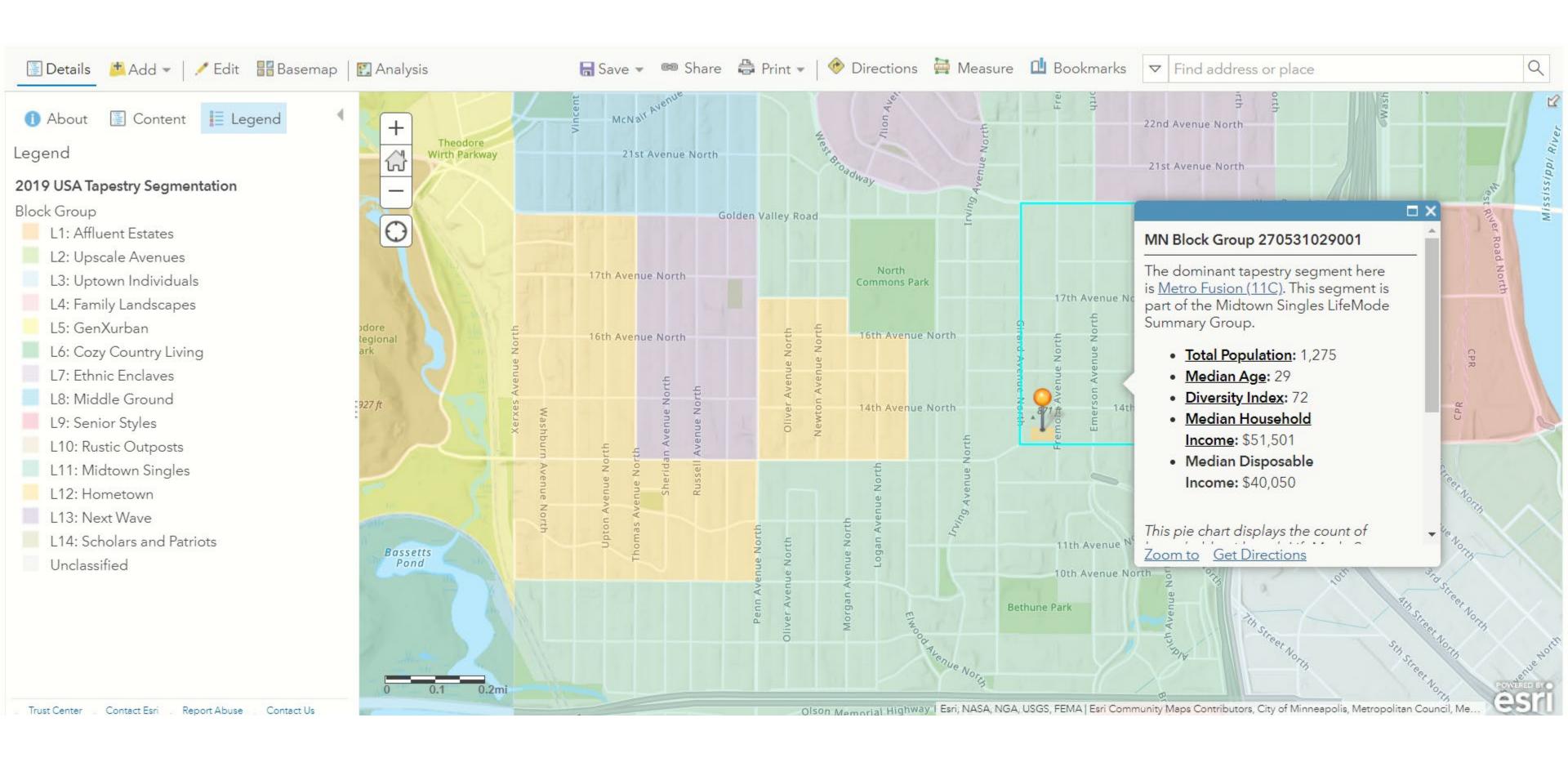
Interaction:

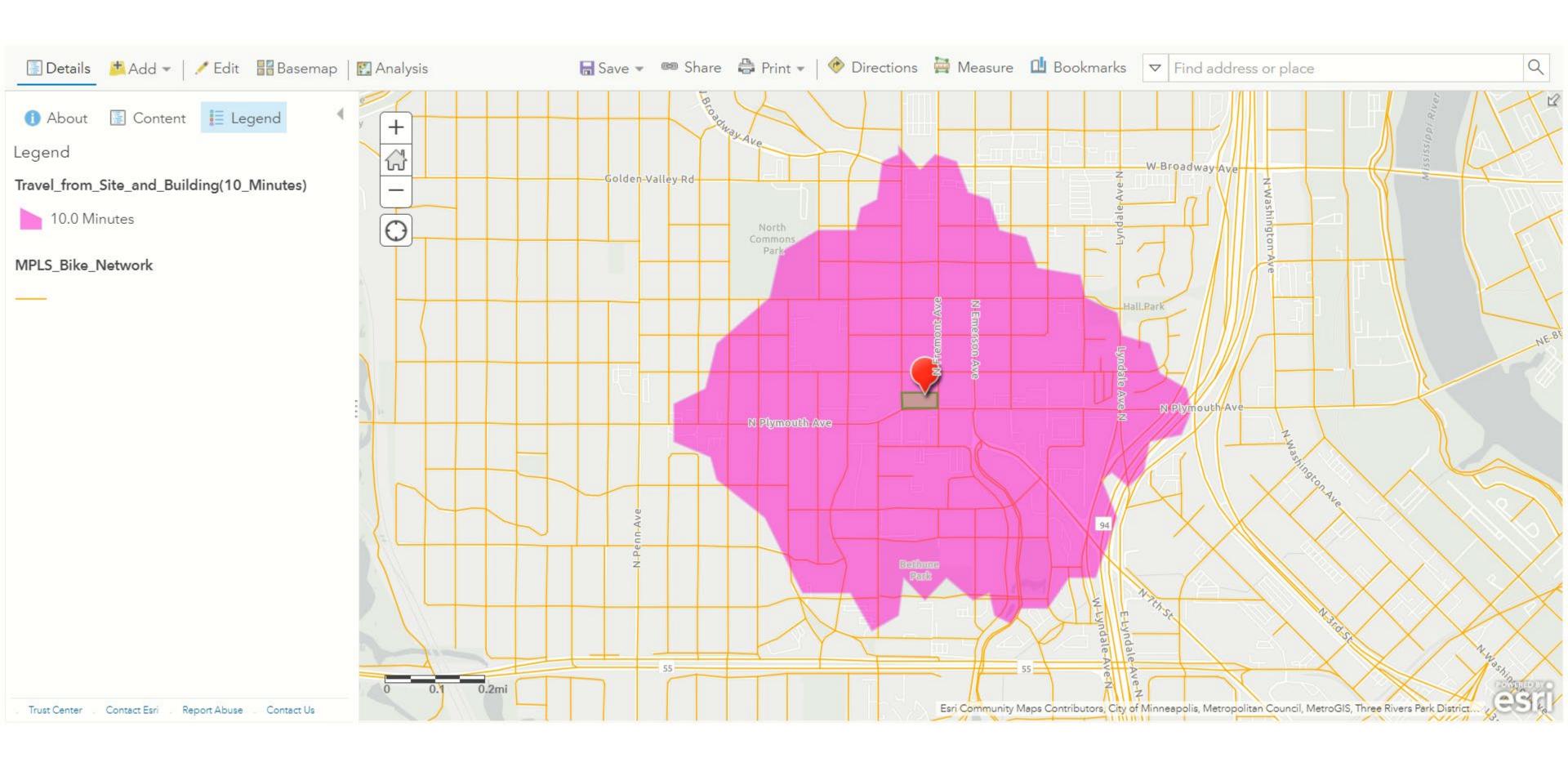
Base maps with layers of information and data enrichment

Story-telling:

Demonstrations of the design solutions via images, texts, and videos







Exemplars

Level Up and Beyond the Borders.

The two teams (3 students in Level Up and 4 students in Beyond the Borders) represented the vision of Jamez Staples via sustainable/universal design solutions.





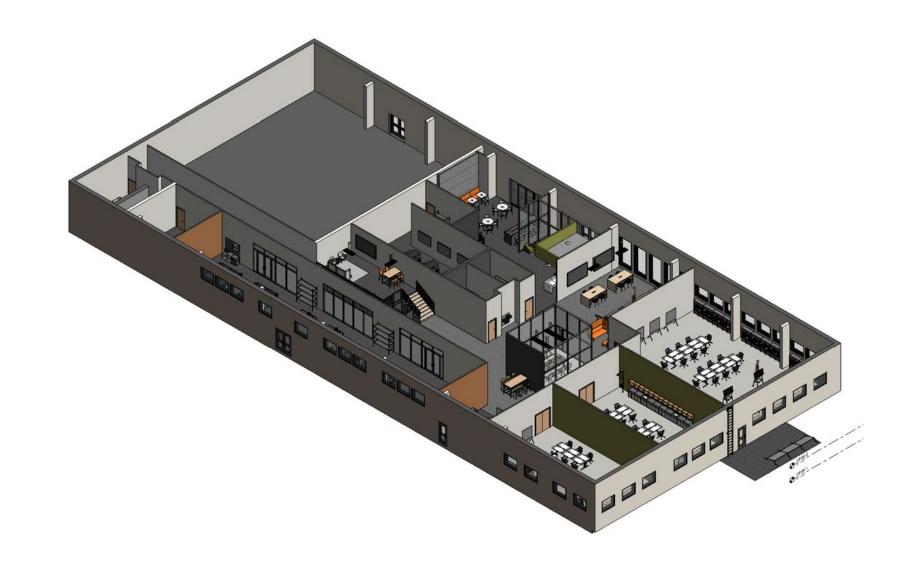


Beyond the Borders

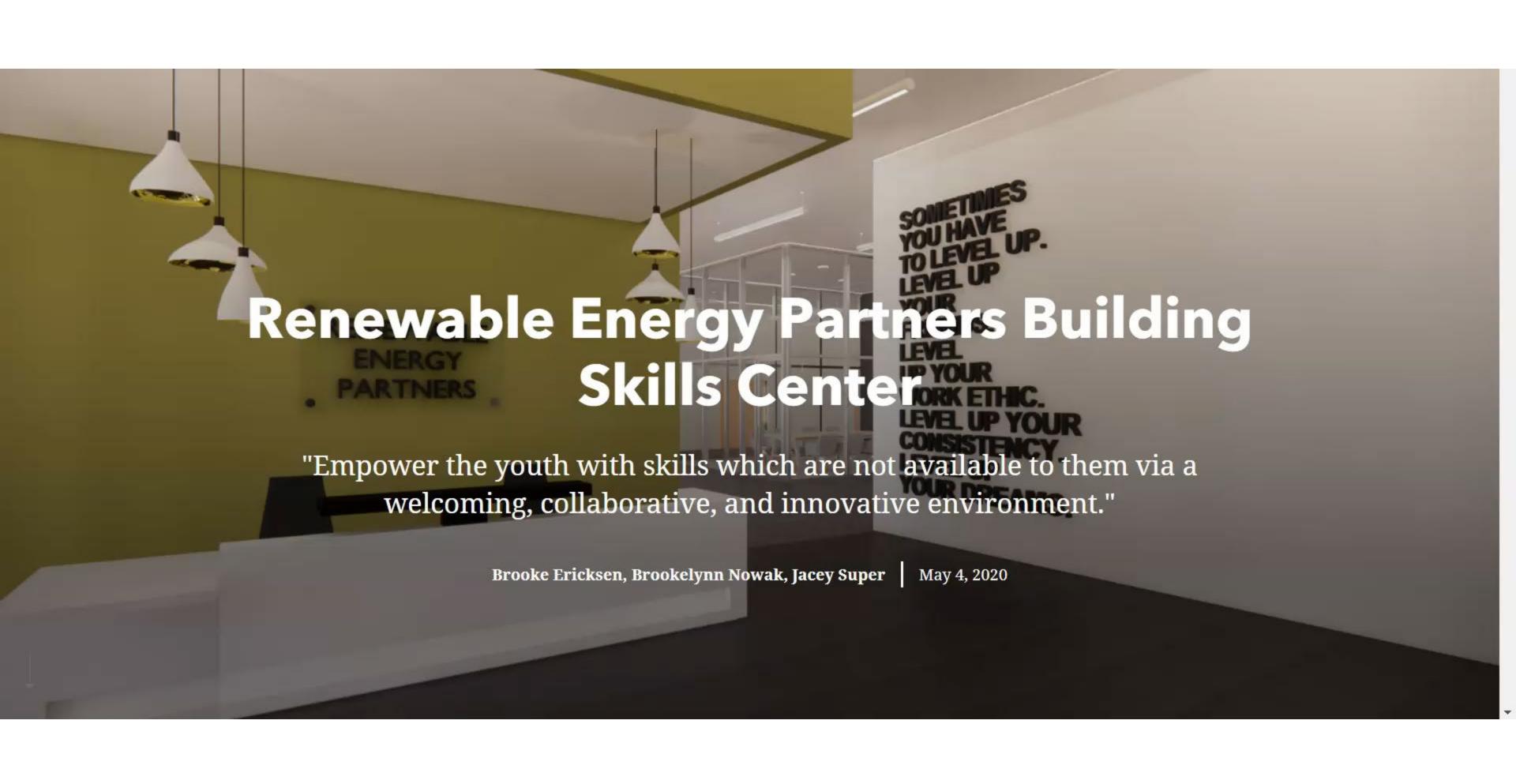
Le ve 1 Up

"The floor plan with circulation and rooms that lead up to one another encouraged the youth of Minneapolis and the surrounding areas to use this center as a resource for learning, experience, and collaboration in order to excel in their goals."

Brooke Ericksen, Brookelynn Nowak, Jacey Super

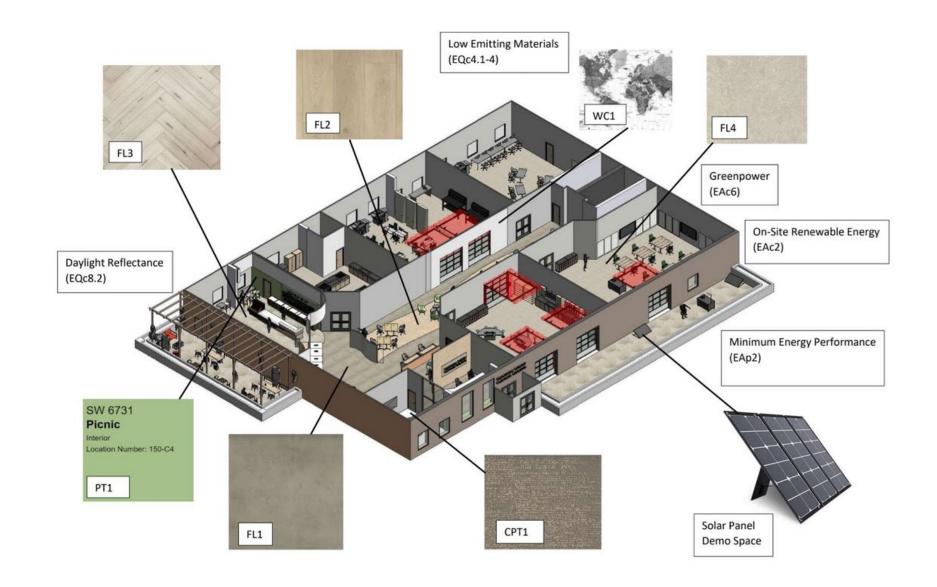






Beyond the Borders

"Moving beyond the borders is living life without limitations: taking every opportunity given to you and existing outside of ordinary expectations... There are no boundaries to what you can accomplish beyond the borders."



Lindsey Lamirande, Vanessa Nguyen, Karla Villanueva, Katrina Zastrow













RENEWABLE ENERGY PARTNERS BUILDING

LINDSEY LAMIRANDE, VANESSA NGUYEN, KARLA VILLANUEVA, KATRINA ZASTROW
January 14, 2021

Conclusion

Jamez Staples was pleased with the design solutions and is in the process of putting the students' works into constructions.

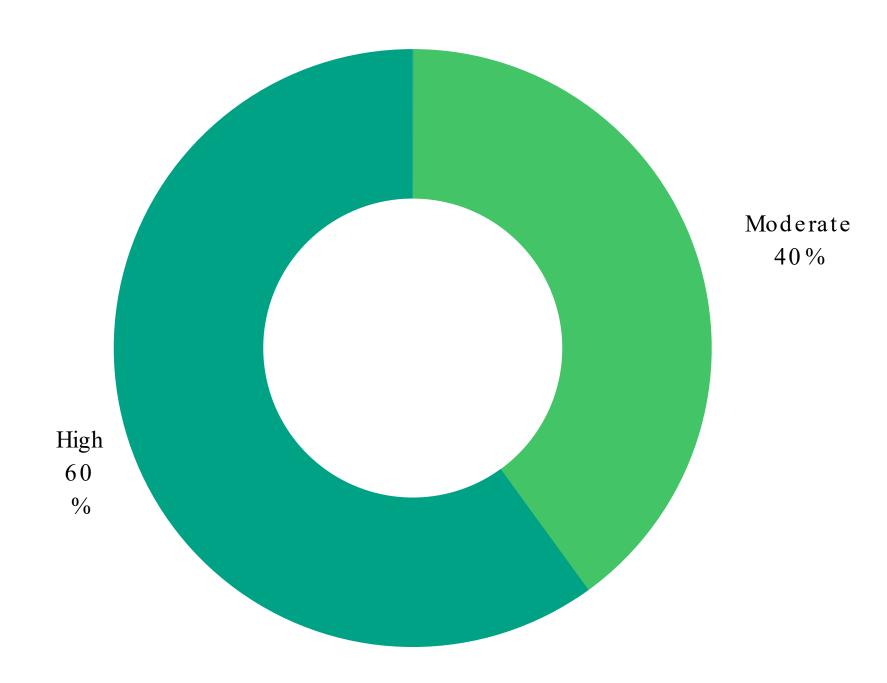
Students were praised for the comprehensive research with ArcGIS and the engaging presentation on StoryMaps.



How familiar students were with ArcGIS/StoryMaps?



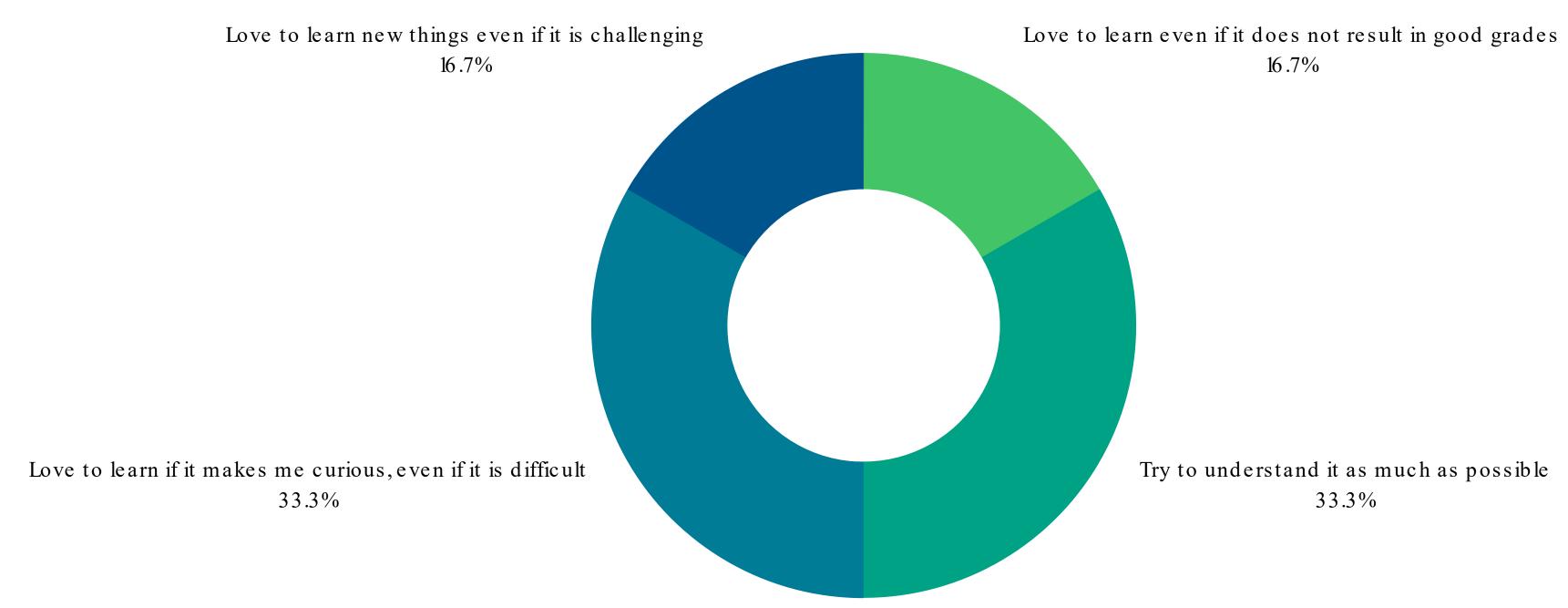
How comfortable students were with technology, in general?



ESRI User Conference

July 12- 15, 2021

How students felt about learning Arc GIS/StoryMaps?



References

Questions & inquiries:
aasojo@umn.edu
voxxx248@umn.edu



[1] N. Norfleet, "Energy entrepreneur's plan to create training center in north Minneapolis stalls," 12-Jun-20 19. [Online]. Available:

https://www.startribune.com/energy-entrepreneur-plan-to-create-training-center-in-north-minneapolis-stalls/511002842/?refresh=true. [Accessed: 26-Apr-2021].

[2] CERTs, "Reshuffling the deck with clean energy," Clean Energy Resource Teams. [Online]. Available: https://www.cleanenergyresourceteams.org/reshuffling-deck-clean-energy. [Accessed: 26-Apr-2021].

Thank You!