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Parallel Migrations (but in the same Universeity): The migration story of Worcester Polytechnic Institute's digital repository and projects database

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Parallel Migrations

(but in the same Universe-ity)

Emily Ping O'Brien
Digital Repository and Metadata Librarian
Worcester Polytechnic Institute

The WPI Plan

Projects are at the heart of a WPI education...

...students discover the value of learning by doing.



Time to Migrate!





Parallel Migration

Library: Digital WPI Repository





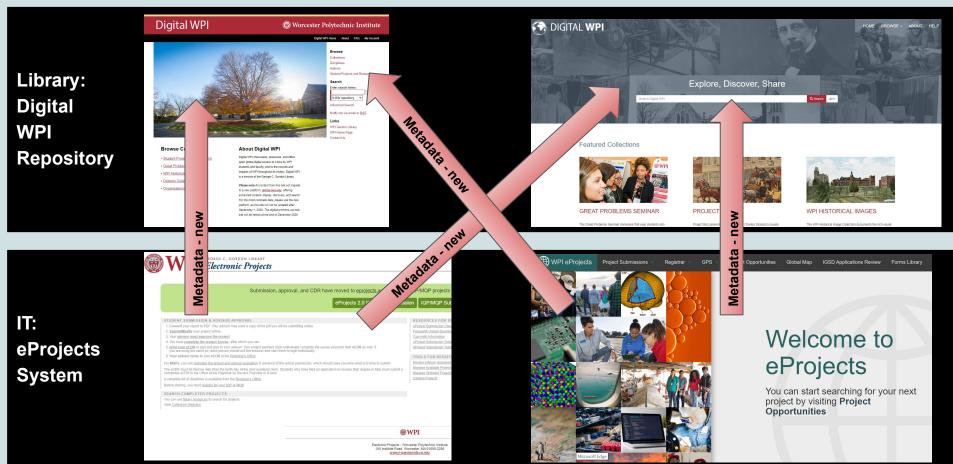




Metadata Migration



Metadata Ingest



THEN eProjects 1.0



Electronic Projects Collection

Title page for E-project-043019-110536

Project Type	IQP		
Submission date	2019-04-30 • Jacob Bernier, ME • Gabrielle Brown, BIO • Michael Hartwick, ME		
Authors			
URN	E-project-043019-110536		
Division	Energy and Resources		
Sponsor	WPI		
Title	ENVISIONING SOLAR PANEL CANOPY SYSTEMS AT WPI		
Advisors	LePage, Suzanne, CE Rosbach, Derren, UGS		
Availability	unrestricted		
effective option. Potential locations account. Regional climate patterns	of WPI's parking areas for a solar canopy system, and developed a recommendation for the most around campus were analyzed, with total area, sunlight exposure, and local topography taken into and solar incentives were also considered. Best practices were learned through interviews with solar hools with solar canopies. Ultimately, a comprehensive cost/benefit analysis was completed to estimate ds.		
Files	Final Document.pdf Payback Analysis.xlsx Solar Canopy Catalog.pdf		

Browse by Author | Browse by Department | Search all available E-projects



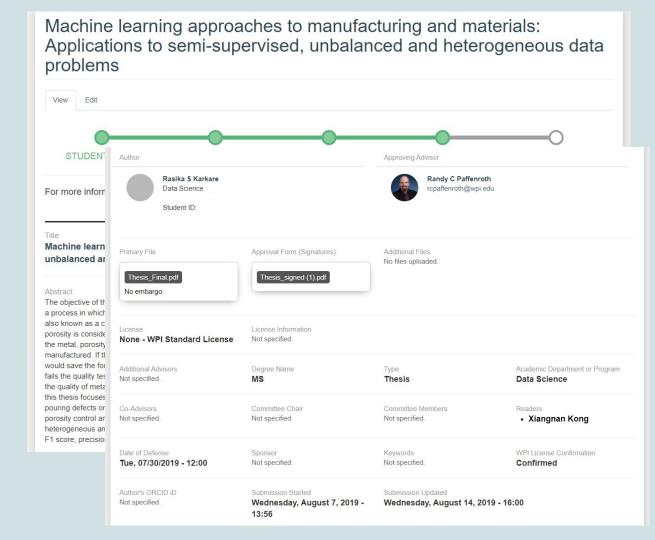






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eProjects 2.0



Digital WPI Repository

INTERACTIVE QUALIFYING PROJECTS (ALL YEARS)

ENVISIONING SOLAR PANEL CANOPY SYSTEMS AT WPI

🕹 Download

Gabrielle Brown, Worcester Polytechnic Institute Jacob Bernier, Worcester Polytechnic Institute Michael Hartwick, Worcester Polytechnic Institute

Faculty Advisor

LePage, Suzanne

Faculty Advisor

Rosbach, Derren

Sponsor

WPI

Abstract

This project assessed the feasibility of WPI's parking areas for a solar canopy system, and developed a recommendation for the most effective option. Potential locations around campus were analyzed, with total area, sunlight exposure, and local topography taken into account. Regional climate patterns and solar incentives were also considered. Best practices were learned through interviews with solar installation companies and other schools with solar canopies. Ultimately, a comprehensive cost/benefit analysis was completed to estimate installation costs and payback periods.

Publisher

Worcester Polytechnic Institute

Date Accepted

April 2019

Project Type

Interactive Qualifying Project

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Digital WPI Repository

ENVISIONING SOLAR PANEL CANOPY SYSTEMS AT WPI Public

Analytics

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SYSTEMS AT WPI

WPI
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r Gabrielle Brown Michael Hartwick picola glumm@spicola mlastwick@spicola Advisors azanne LePage Denne Rosbach

Sustaining WPI Project Center 2019

This report impresses the work of your or man NPT entergradure analysis advantage abundance of the Social control of a singree requirement. NPT controlly publishes close reports on its web-sity solidates before close reports.

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This project assessed the feasibility of WPI's parking areas for a solar canopy system, and developed a recommendation for the most effective option. Potential locations around campus were analyzed, with total area, sunlight exposure, and local topography taken into account. Regional climate patterns and solar incentives were also considered. Best practices were learned through interviews with solar installation companies and other schools with solar canopies. Ultimately, a comprehensive cost/benefit analysis was completed to estimate installation costs and payback periods.

Creator

Bernier, Jacob Brown, Gabrielle Hartwick, Michael

Subject

Sustaining WPI Project Center

Publisher

Worcester Polytechnic Institute

Identifier

E-project-043019-110536

Keyword

Energy and Resources; Sustaining

Advisor

LePage, Suzanne Rosbach, Derren

Year

2019

Sponsor

WPI

Date created

2019-04-30

Resource type

Interactive Qualifying Project

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	Solar_Canopy_Catalog.pdf	2020-08-16	Public	



Payback_Analysis.xlsx 2020-08-16

Public

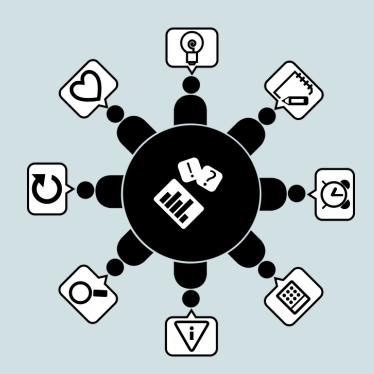
Collaboration - Challenges

- Communication
 - Internal
 - Cross-departmental
- Documentation standards
- Evolving team



Collaboration - What Worked

- Cross-promotion
- Weekly Meetings
- Flexibility with project management methodologies



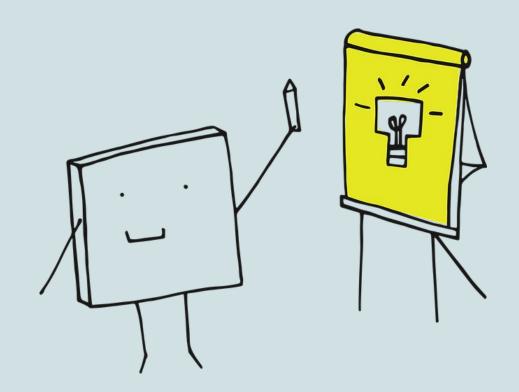
Metadata Prep and Migration

- Migration workflow decisions
- Repository maintenance x 2
- Normalization and clean-up
 - Different depending on repository
 Migration
 - Each Term
- Addition of themes for faceting



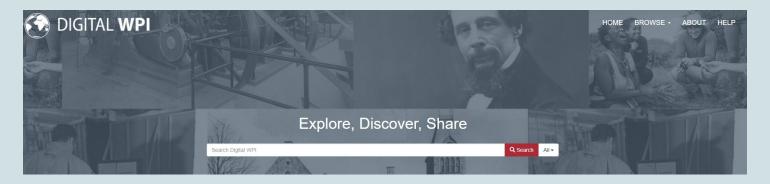
Personal Wins

- Previous SQL knowledge
- Mastering OpenRefine
- Learning Python
- Surprise! DOCUMENTATION!

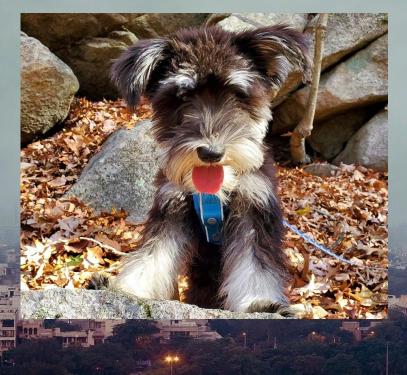


What's Next?

- PDF Viewer
- Additional digitized WPI historical and special collections
- Full integration with campus core systems
- Custom analytics
- User-created collections
- Incorporate <u>UNESCO</u> and <u>Sustainable Development Goals</u>



Thank you!



Emily Ping O'Brien epobrien@wpi.edu