

Design Space

Corridor Crusaders

- 30% of time away from desk
- Much of time spent in meetings, both *formal* and *informal*



Informal Interactions



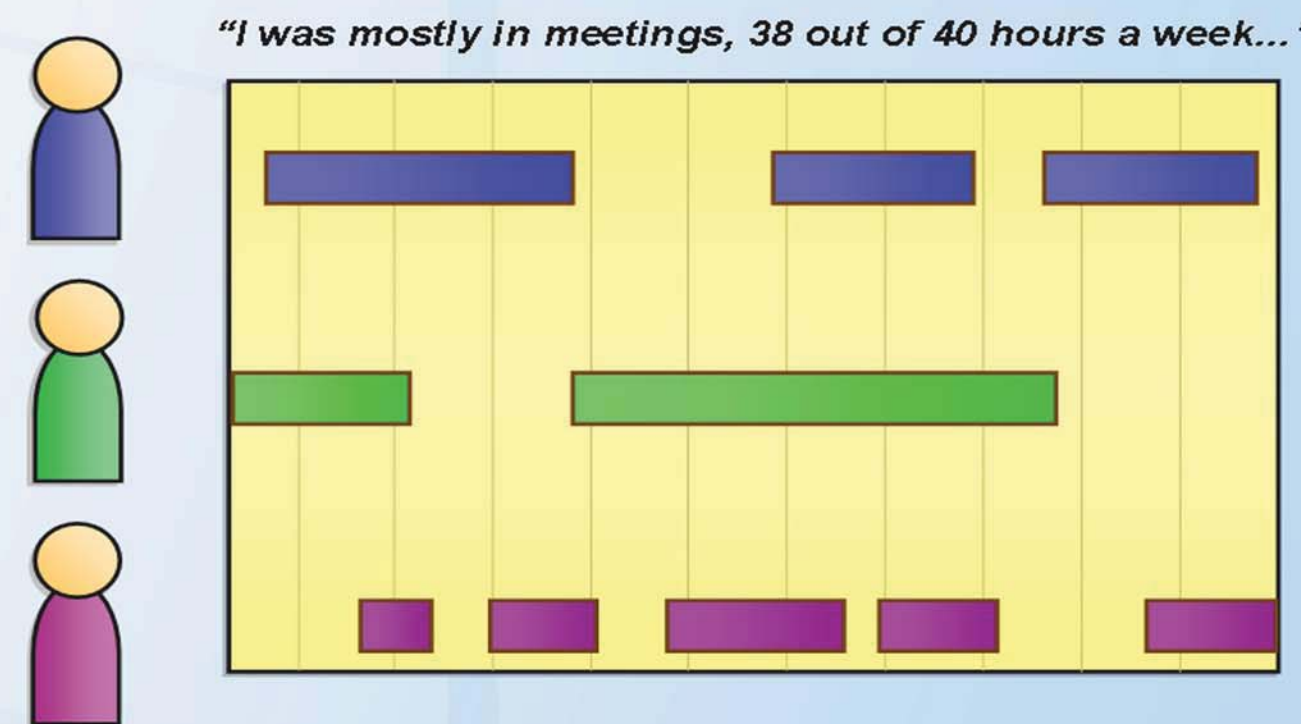
Resource for Knowledge generation

Characteristics: (for our purposes)

- **Unscheduled**
- **Synchronous** (IM, Phone, VideoConf, Face-2-face)
- **Work Related**

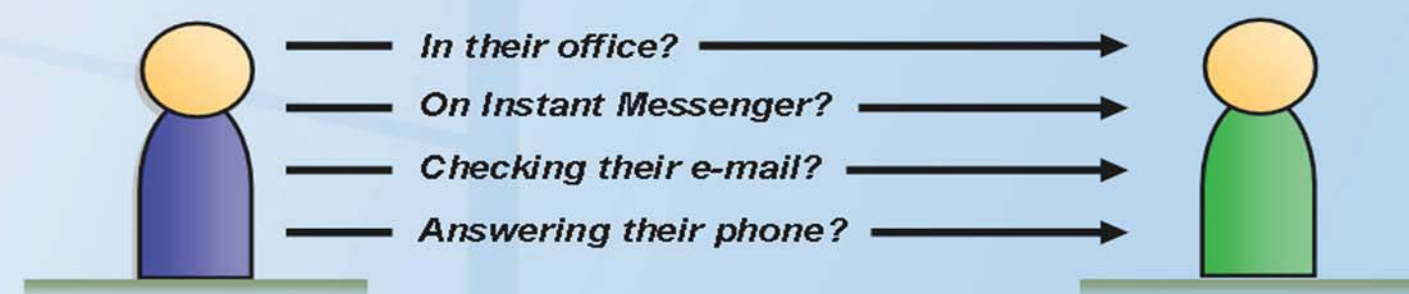
Problem

Finding Time To Meet



How to Reach Someone?

"I am sick of worrying about how to get people. ...when I want to get to somebody, I want to get to that person; I really don't care how."



Team MITRE

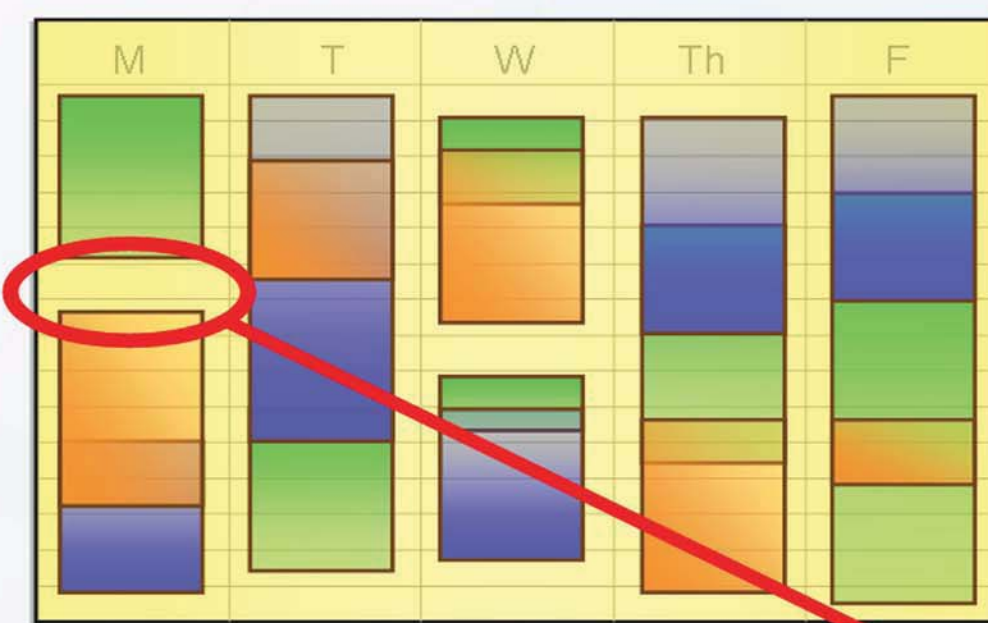
PorchLight



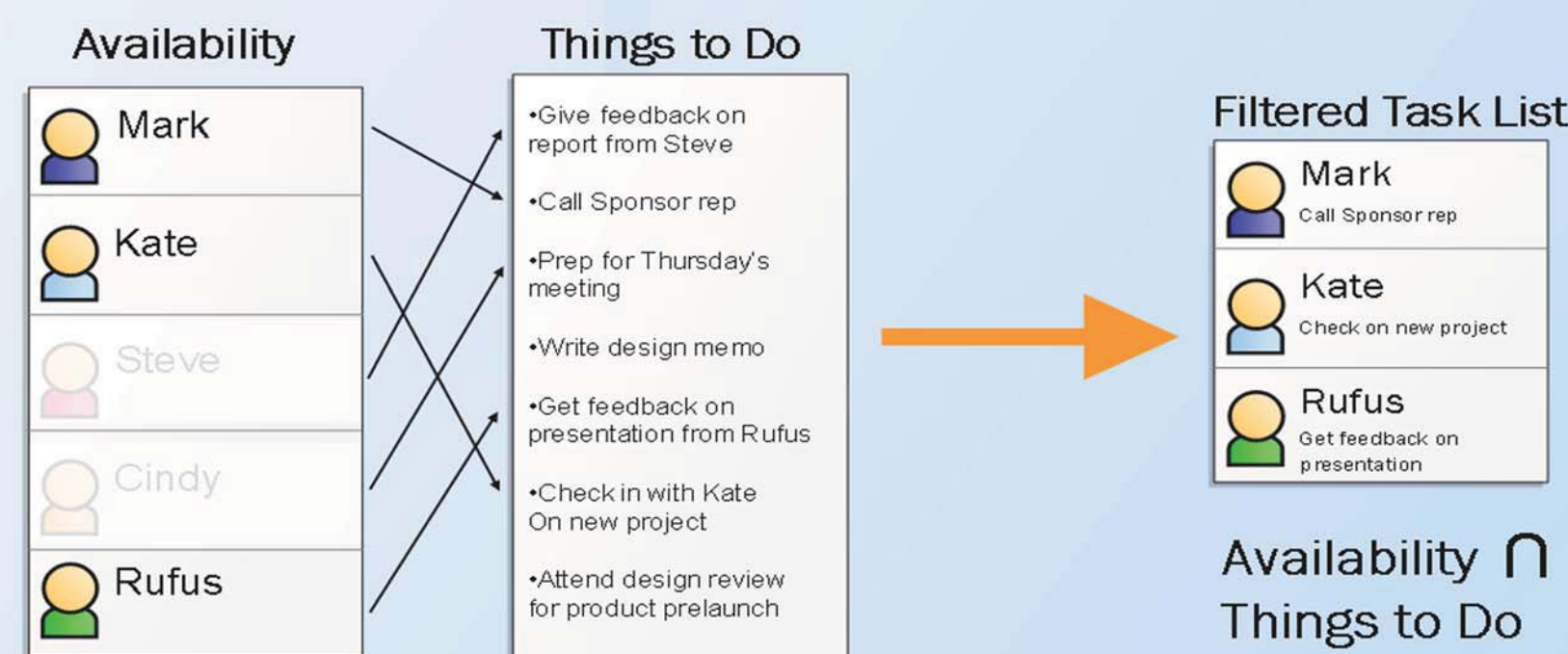
An enterprise system for facilitating speedy identification and engagement of collaboration opportunities.

Situational Awareness

Real-world schedules are constrained...

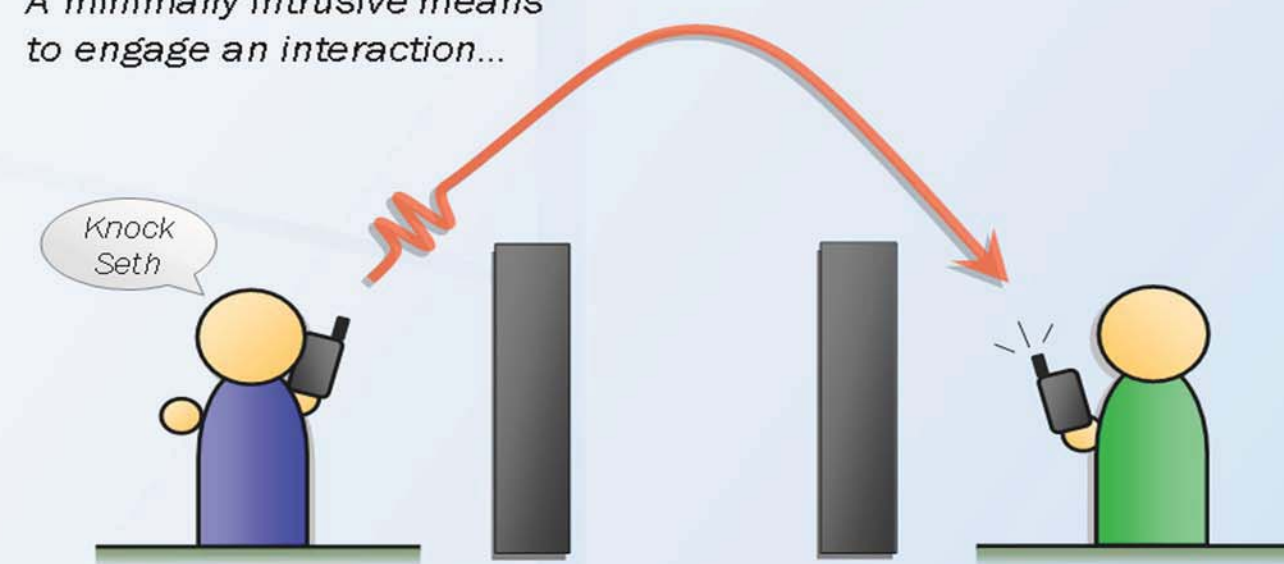


Take advantage of real-time opportunities



Instant Communication

A minimally intrusive means to engage an interaction...

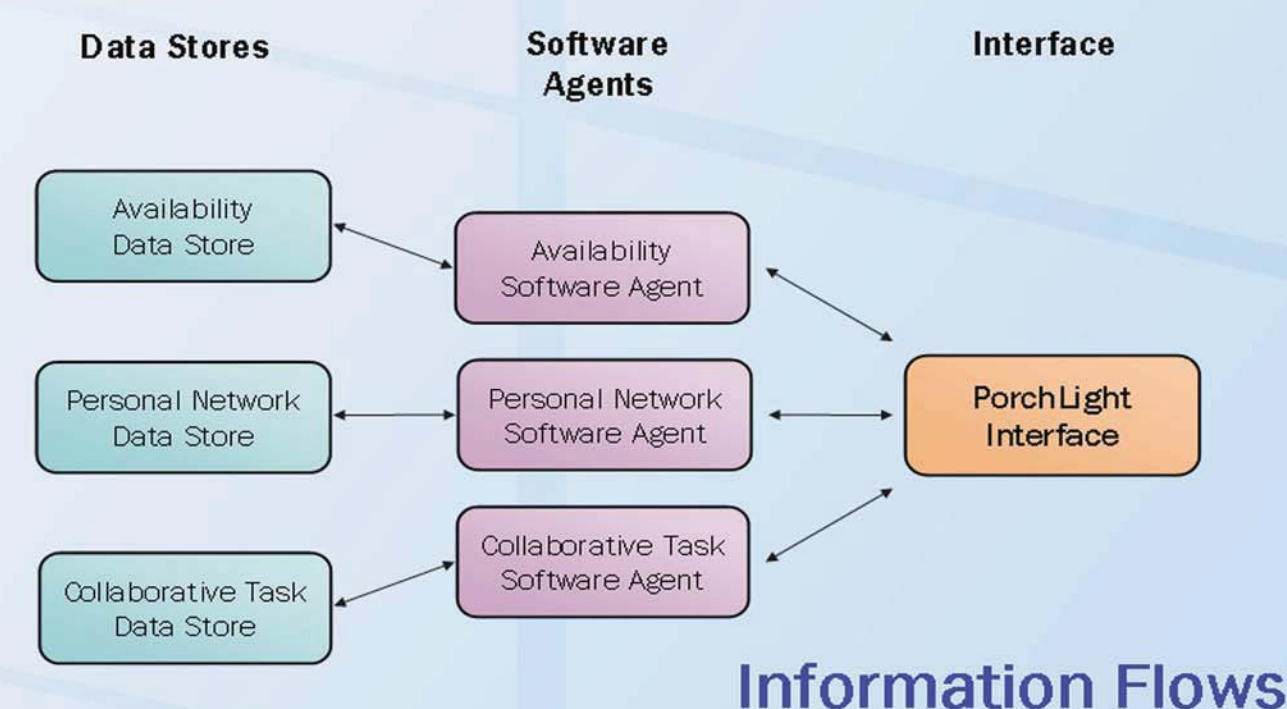


User Scenarios

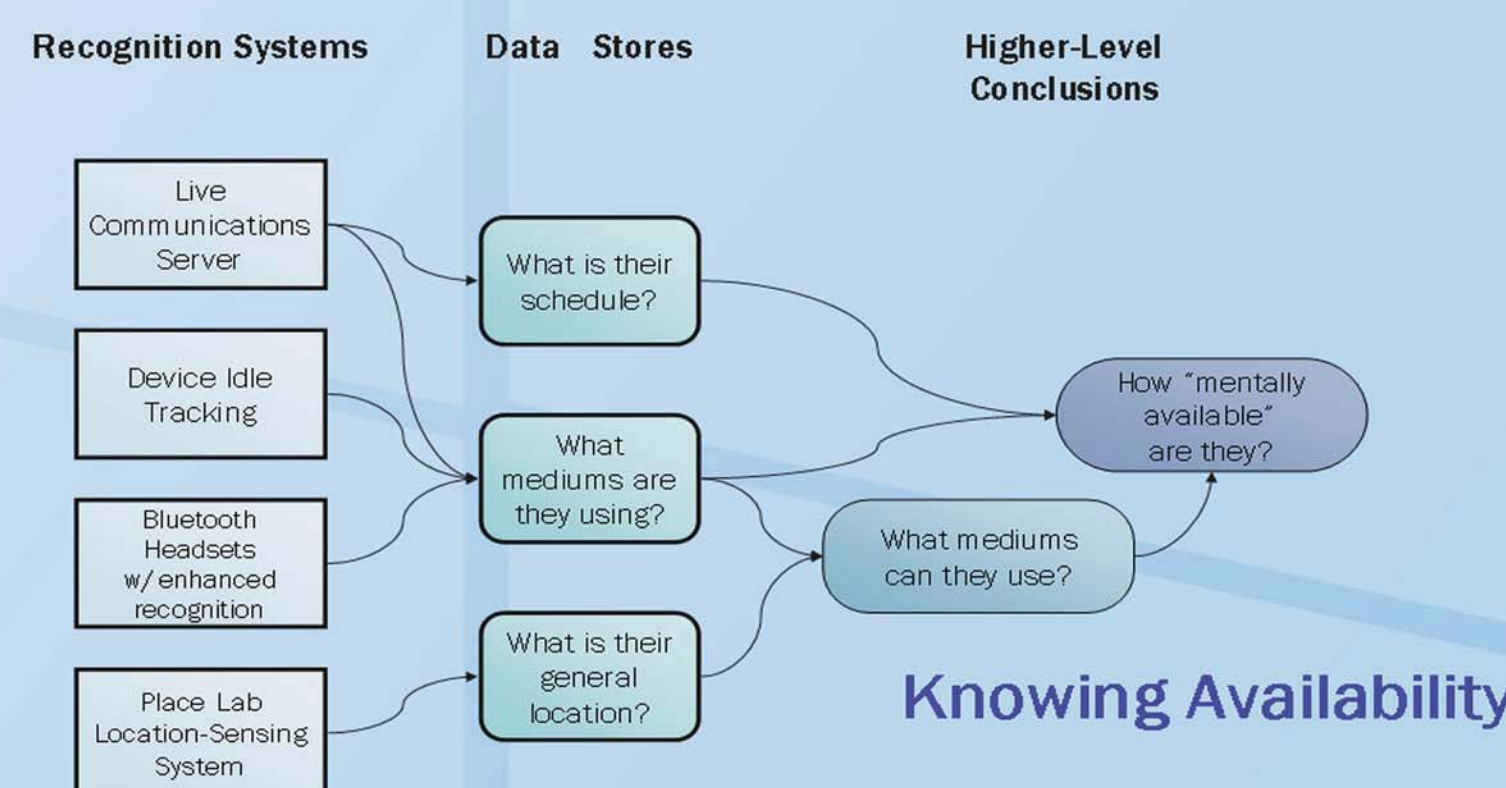
Samantha decides to take a break and goes for a cup of coffee. At the coffee machine, she runs into Donald and begins talking about baseball. The conversation slowly shifts to the project they are working on and Donald reminds her the sponsor asked for a copy of the current specs of the deliverable. She takes her EDA out of her pocket and adds a quick task just reminding herself to send to specs. She attaches the file in question to the task so she'll have it ready later. She puts her EDA back in her pocket and heads back to work.



System Architecture



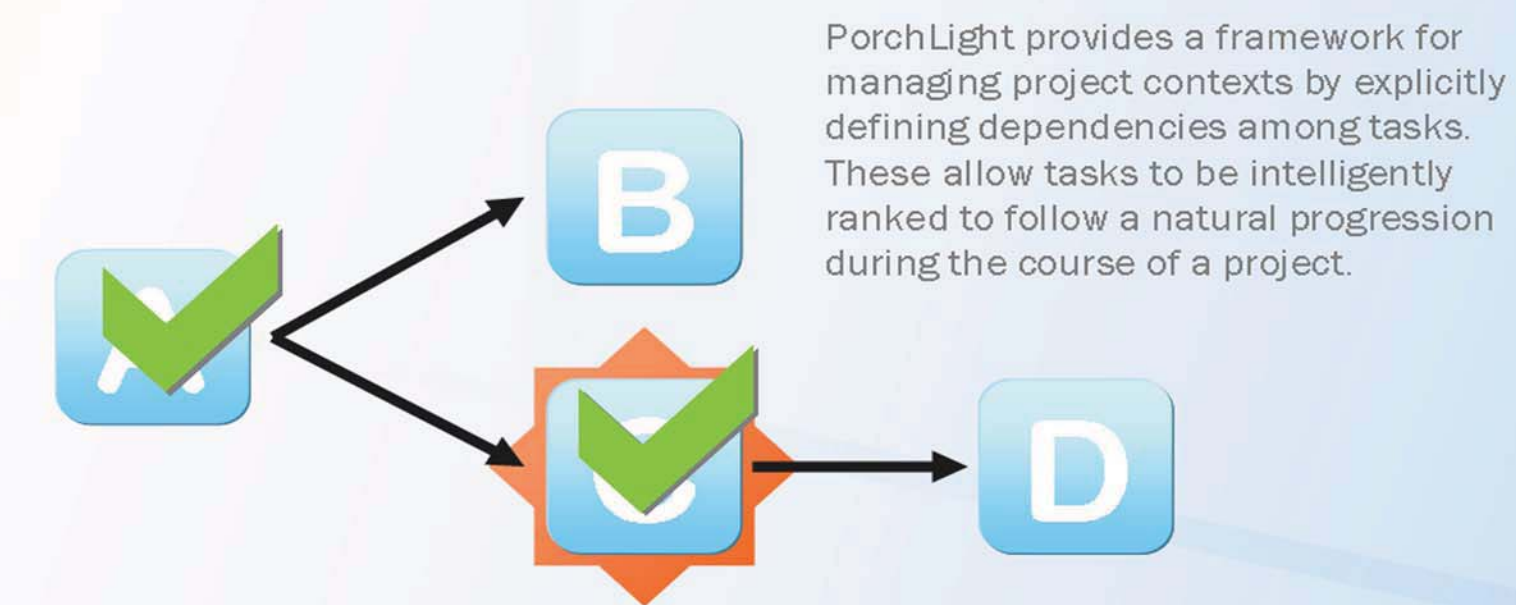
Information Flows



Knowing Availability

Managed Context Switching

Task Dependencies



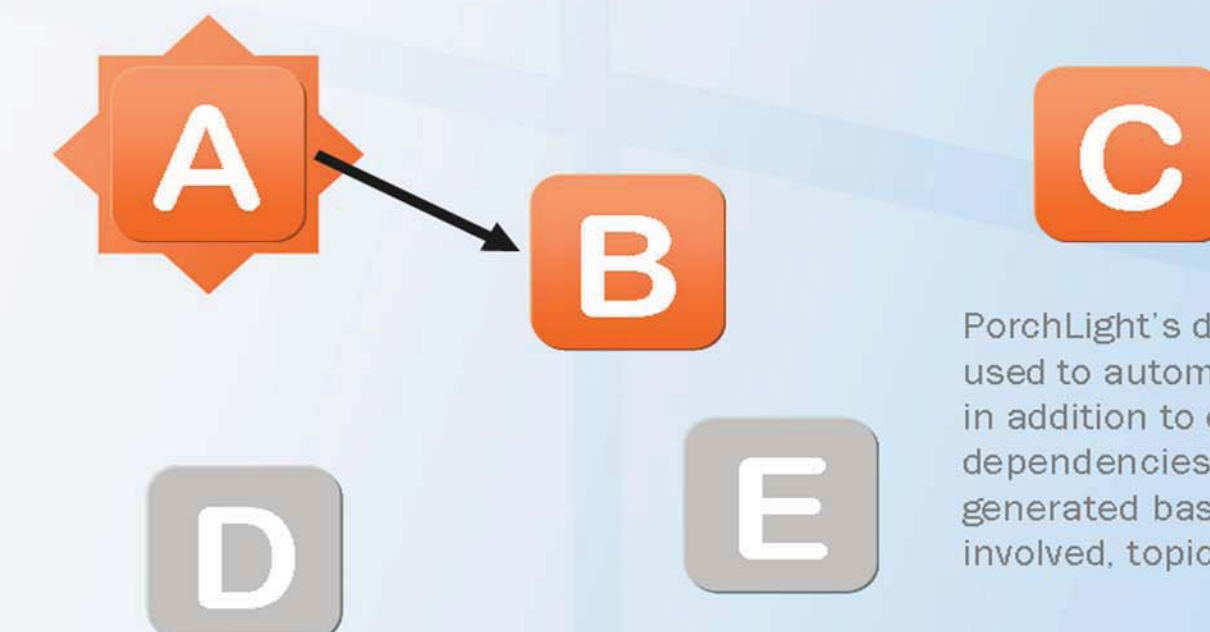
PorchLight provides a framework for managing project contexts by explicitly defining dependencies among tasks. These allow tasks to be intelligently ranked to follow a natural progression during the course of a project.

Catching Up to a Context

Tracking dependencies for tasks and projects involving more than one person allows users to switch away from a particular context, then return later having a full update on which tasks were completed. They can then begin working on tasks which extend the work already done.



Automatically Sensing Context



PorchLight's data stores can be used to automatically group tasks in addition to explicit project dependencies. Contexts can be generated based on people involved, topic, documents, etc.

Interaction Prototype



Context: "The most important task of this system is condensing the information into meaningful chunks for an end user."

- Interruptability
- Reachability
- Opportunity

Speed: "Identifying and engaging cannot take longer than collaboration itself."

- Ranked opportunities
- Links to further details

