

Trends in Project Management



International Open Shop Conference
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Global Market

- Design Team Collaboration
- Project Management
- Where is This Taking the Industry?



The Industry is Changing

- Past Document Distribution
- Current Document Distribution
- Future Technology Document Driven Distribution



Project Management Solutions

Objective is to improve communication, increase efficiencies, reduce time, reduce errors and therefore reduce costs.

- Easy to Use Applications
- Flexible Access
- Collaborative Optimization
- Accountability through Tracking
- Integration with Other Software
- Digital Takeoff and Estimating





Why Things Have to Change

NIST Study

The Advanced Technology Program at the National Institute of Standards and Technology (NIST) commissioned a study to identify and estimate the efficiency losses in the U.S. capital facilities industry resulting from inadequate interoperability among computer-aided design, engineering, and software systems. Although the focus of the study was on capital facilities—commercial/institutional buildings and industrial facilities—it benefits key stakeholders throughout the construction industry.

This report estimates the cost of inadequate interoperability in the U.S. capital facilities industry to be \$15.8 billion per year. Of these costs, two-thirds are borne by owners and operation and maintenance (O&M). Interoperability problems in the capital facilities industry stem from the highly fragmented nature of the industry, the industry continued paper based business practices, a lack of standardization, and inconsistent technology adoption among stakeholders.

Source: NIST report "Cost Analysis of Inadequate Interoperability in the U.S. Capital Facilities Industry." August 2004.



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So how do we improve our efficiencies?

Larger, more integrated organizations will drive the wasted costs out of the organizations.

Adoptions of efficient, productive standard procedures

More sophisticated players will use more sophisticated technology to manage efficiency, risk and costs.

Data Interoperability between project partners becomes a requirement

Interoperability is key to improved productivity and quality

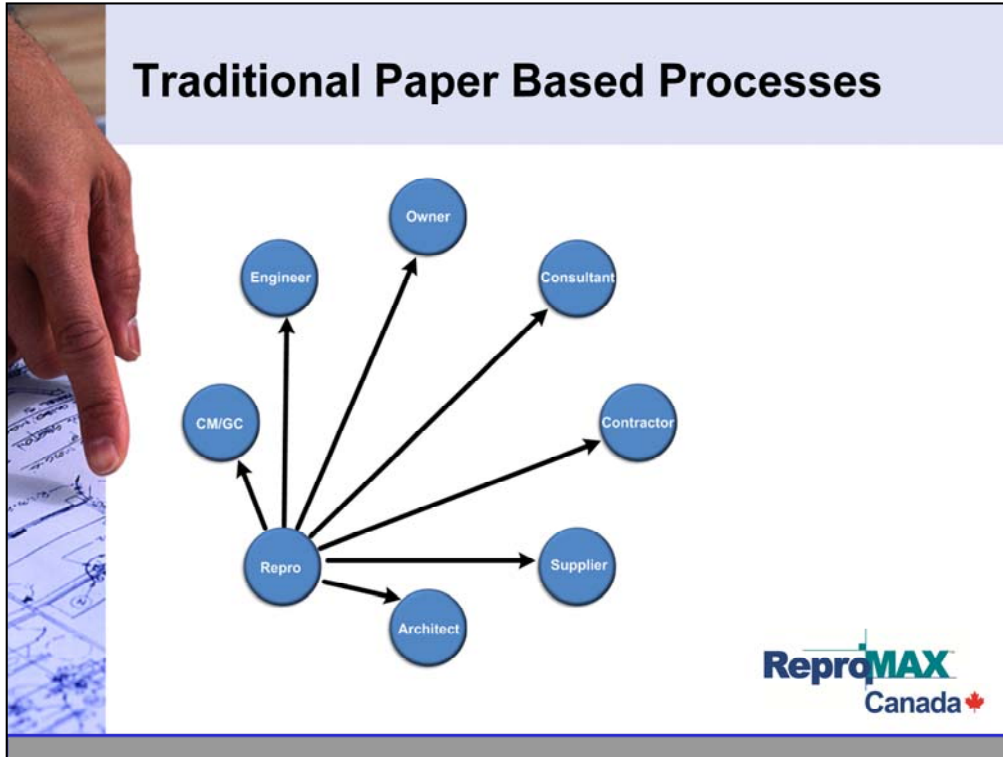
Elimination of inefficiencies and waste will certainly be a big part of the future of this industry.



And probably one of the most important things to come out of the future changes to the industry is elimination of mistakes due to poor design, or construction.

The owner wants a Consistent, standardized set of data at the end of the project

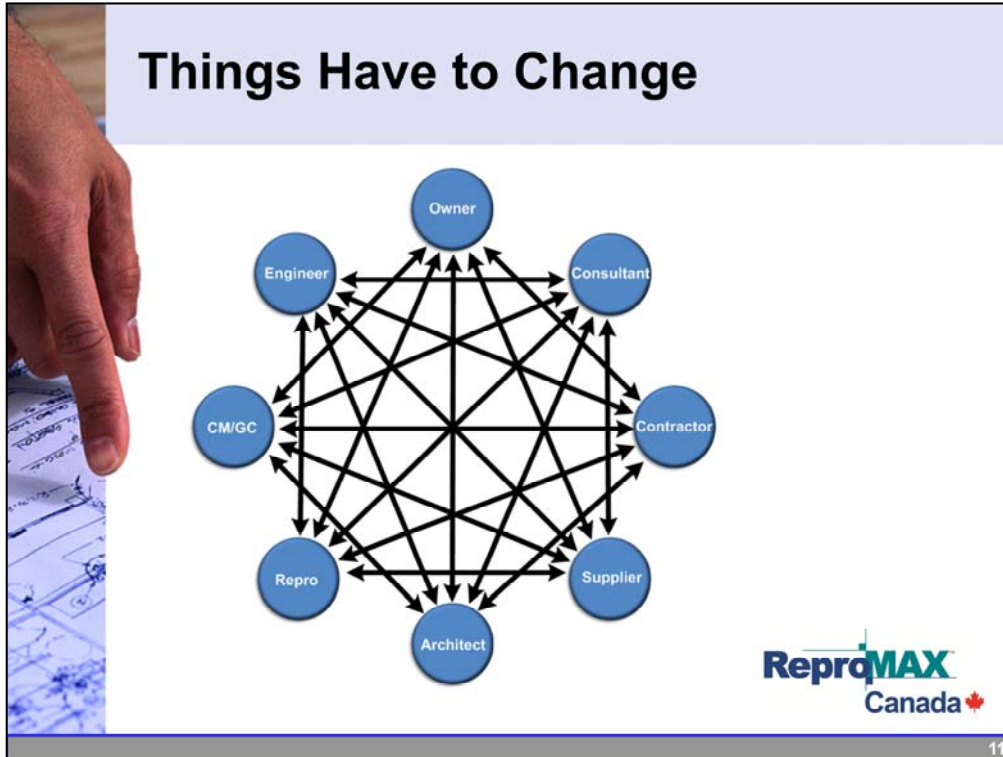
They Require the project team to adopt a standards that provide the data in the format that they need



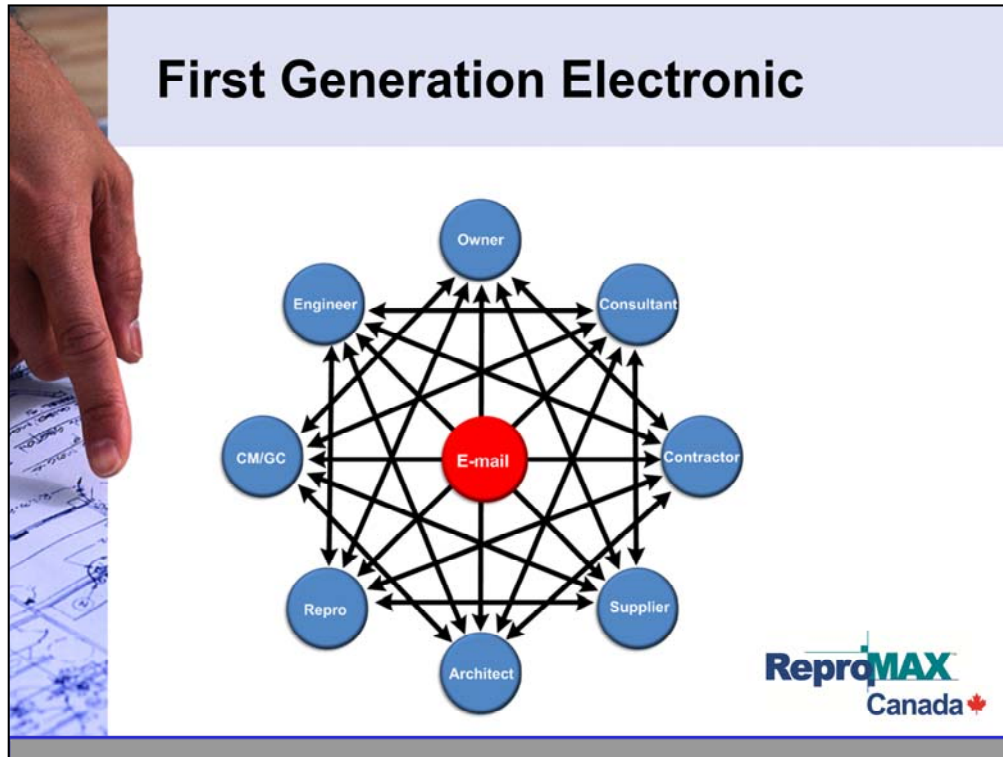
In the past, we had standards. Paper Based Standards, but at least there were standards.

We each created paper and shipped it to everyone. Everyone knew how to work with paper, and even though they had different filing systems, we all had the same information.

Things Have to Change

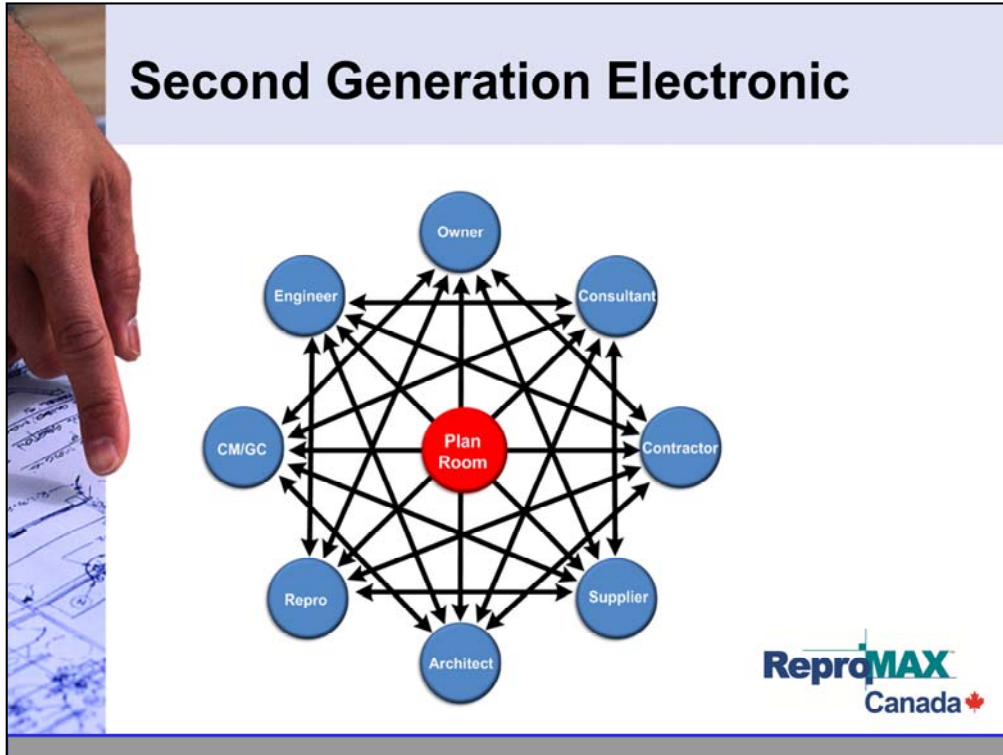


But the cost of printing and distribution were very high. You also had to have a very good auditing or paper trail and have a good filing system.

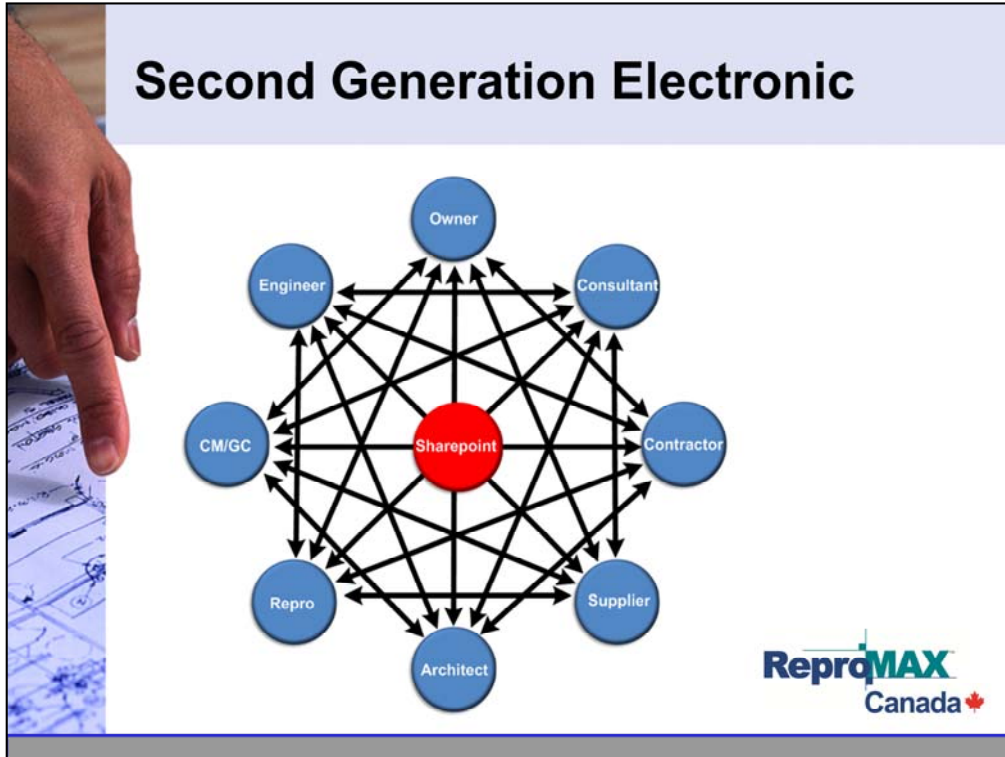


First generation electronic projects usually started with the use of e-mail to distribute time sensitive documents.

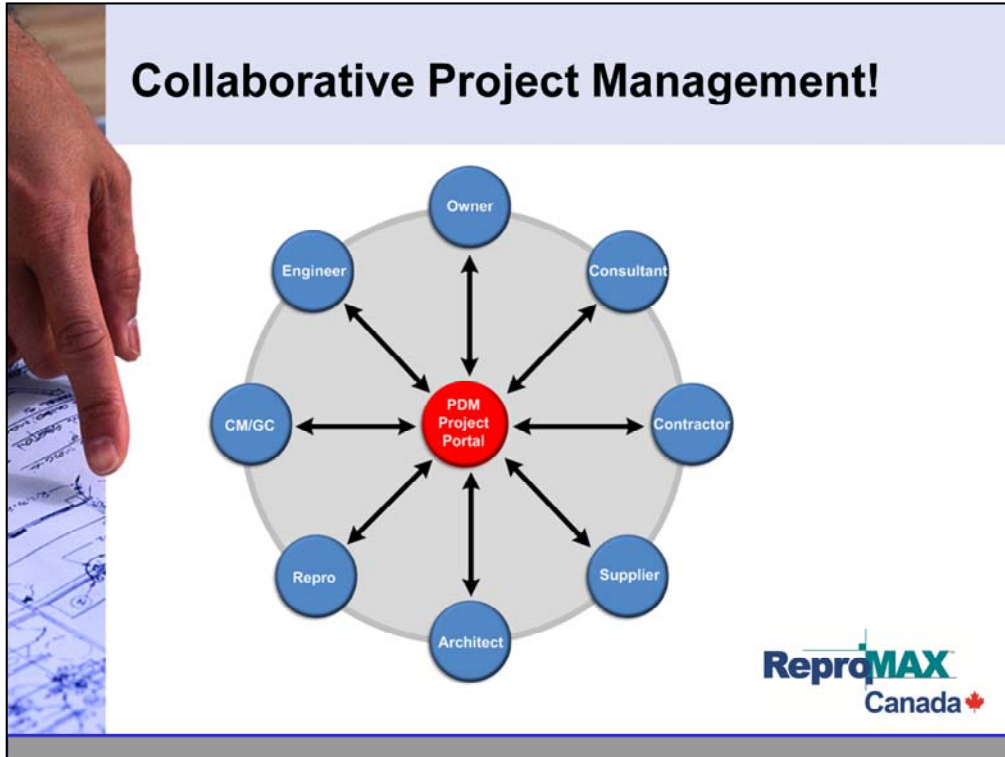
Although this definitely improved the time to complete some document processes, it added another problem. Now in order to get the current information about a project, you had to look not only in the paper based filing system, but also e-mail systems. Notice I said systems. Since each project user may have different e-mail systems, it was very difficult to have a central e-mail system. So you now had the added complexity of managing e-mail and paper based processes.



In the year 2000 we started to utilize internet based plan rooms and FTP sites. This further complicated the problems because we were now adding a third location where project information is stored. So instead of gaining control of the electronic information, we are beginning to lose control since each system has different information and there are no standards of where or how the information is stored.

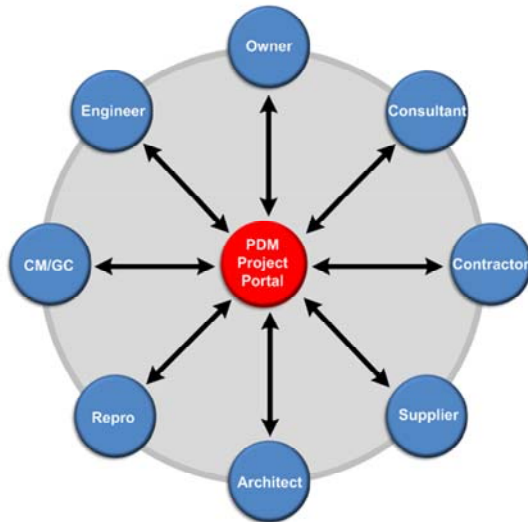


More recently we have added tools like Sharepoint, which further complicate the electronic document solution. Since most of these electronic tools are generic, they do little to help enforce good document processes. This is making the prospect of controlling the information even more complex.



A system is required to provide complete document management and processes-automation for the project. A system designed from the very beginning as an AEC Solution that knows how to manage construction documents, not banking or insurance

Interoperability!



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The goal of PDM is to provide current, accurate information to the entire project team. It also is designed to allow each team member to manage their own information and processes using whatever tool they choose that best meets their organizations requirements.



Thank you

Carl Sapinsky
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