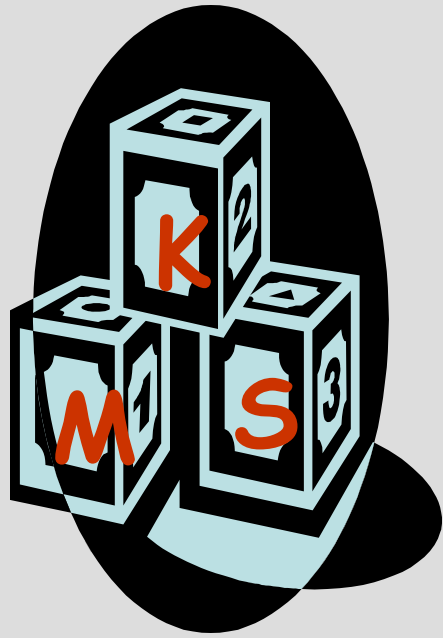


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Building an IPRO Knowledge Management System

Team Members:

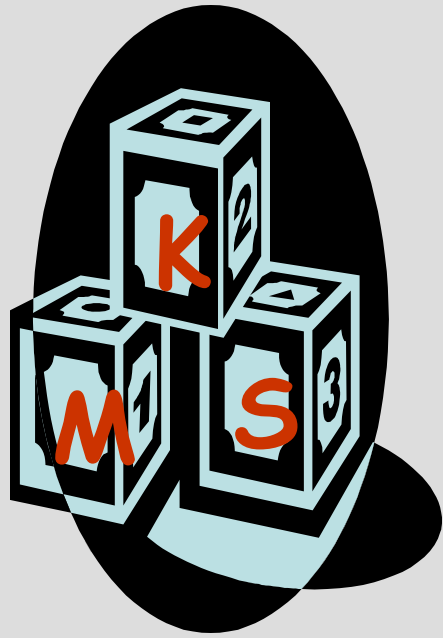
**Ryan Hochstetler
Chengappa Iychodianda
Preeti Nirwal
Michael Westenhaver**



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Objectives

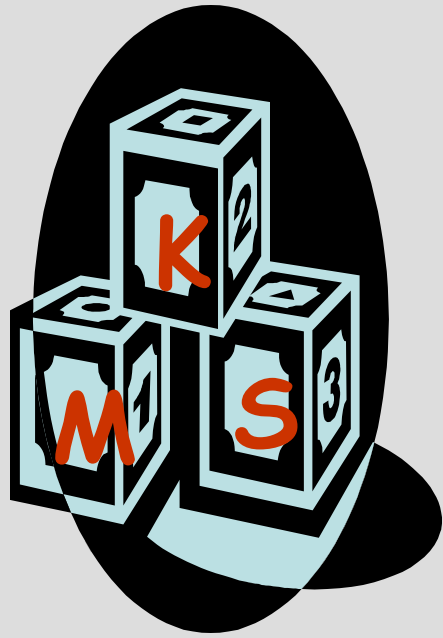
- Facilitate inter-team communication
- Provide continuity between semesters
- Provide a repository of all IPRO deliverables
- Assist in locating experts



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Why Knowledge Management?

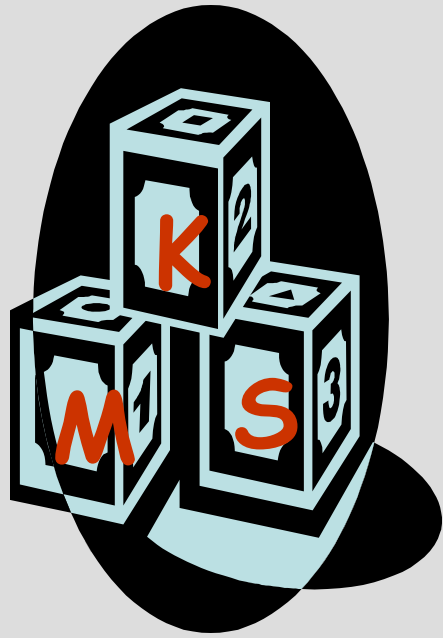
- **Current Scenario:** Only repository available now is in the form of binders.
- **Solution:** A mature KMS provides a searchable repository of all IPRO deliverables.



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Why Knowledge Management?

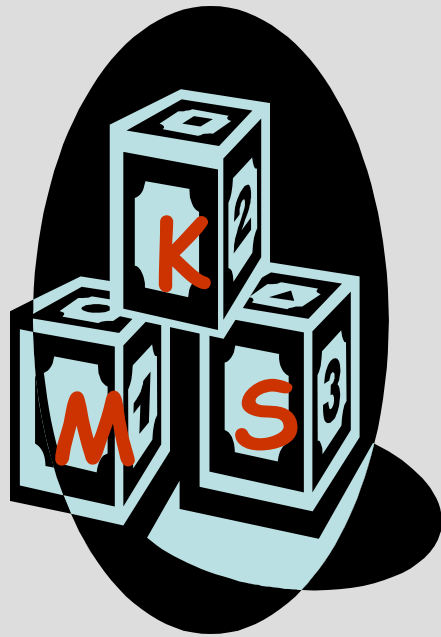
- **Current Scenario:** Project knowledge is transferred by retaining students.
- **Solution:** A new team can access the repository and hence avoid costly re-work.



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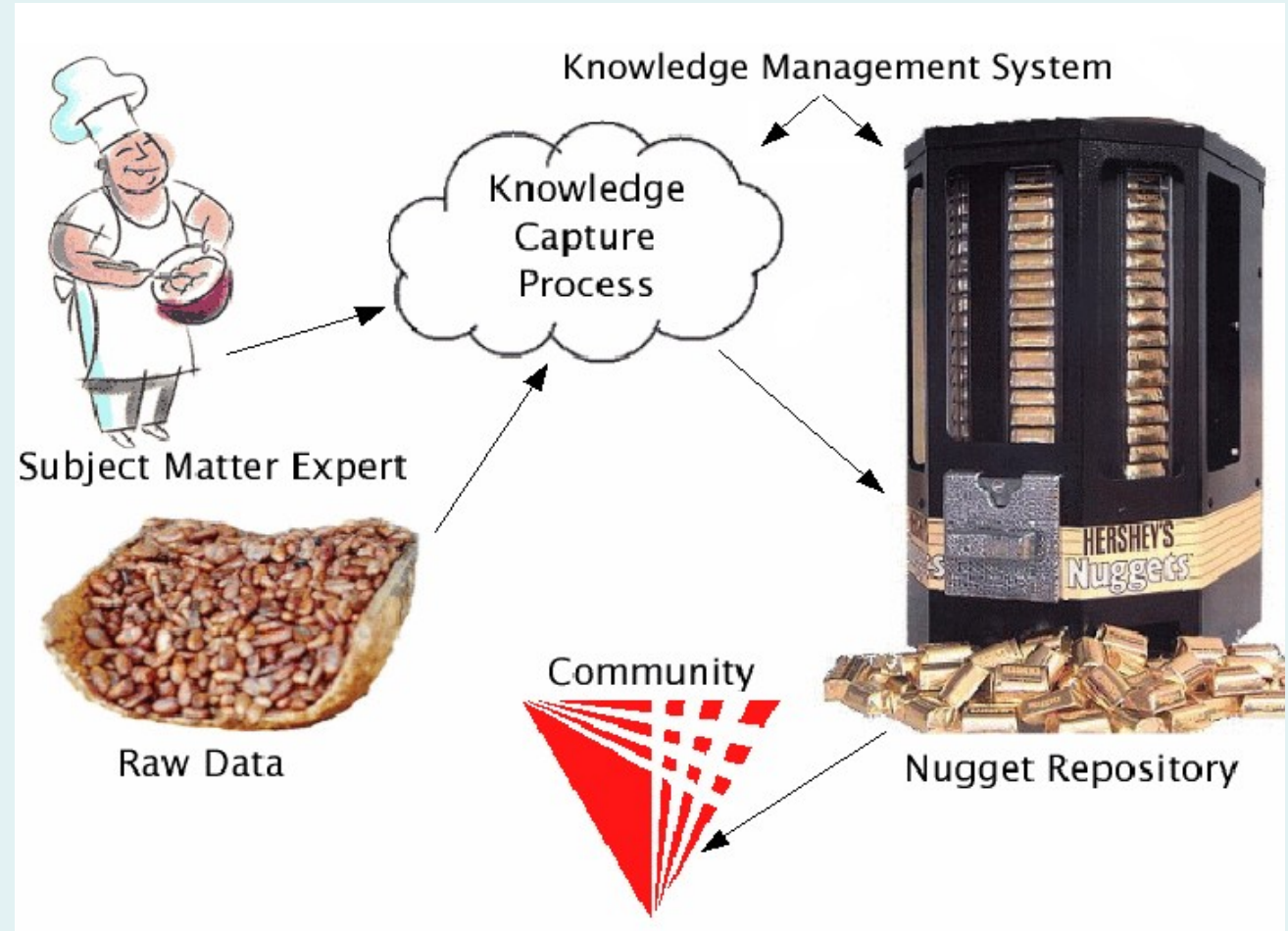
Why Knowledge Management?

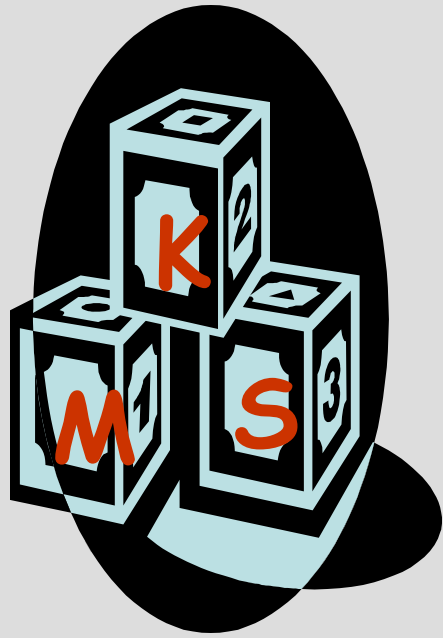
- **Current Scenario:** Locating subject matter experts is a tedious exercise.
- **Solution:** KMS provides a mechanism to locate subject matter experts.



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KMS Overview

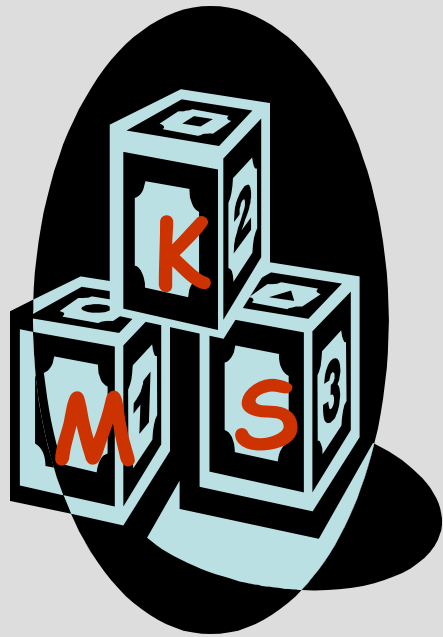




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Organizational Culture

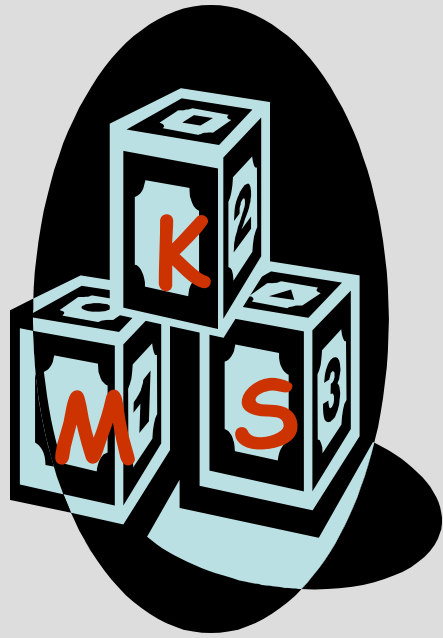
- Technology is not enough
- Compliance must be cultivated, not forced
- Incentives boost participation
- Some incentives cost nothing



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What's in a nugget?

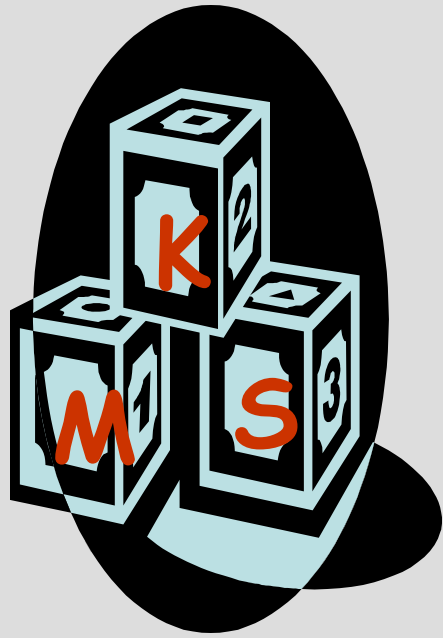
- Title
- Abstract
- Creation narrative
- Categories
- Keywords
- Author
- Project
- Content



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Nugget Examples

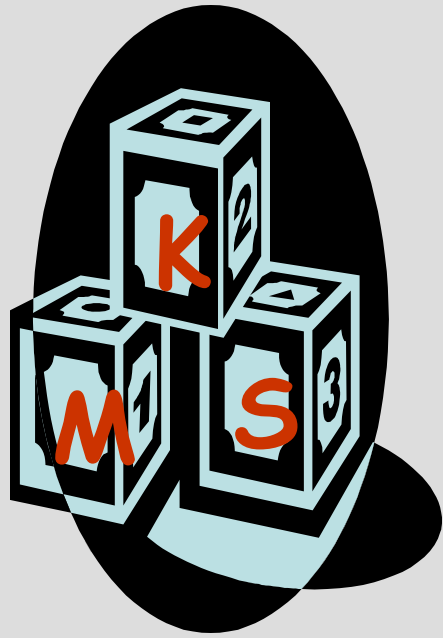
- Deliverable Nuggets
- “Quick Nuggets”
- Subject Matter Experts



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Searching The System

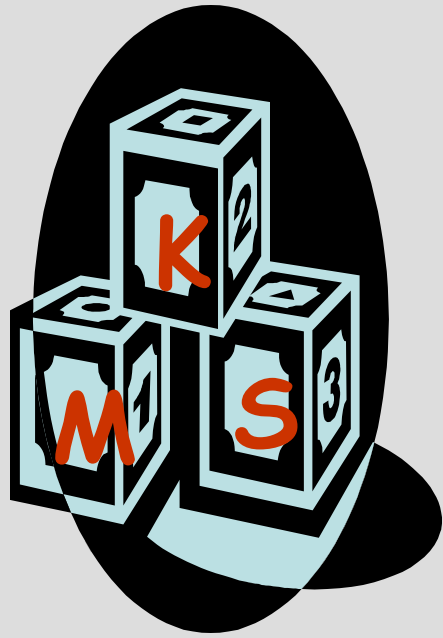
- Content is searchable by several attributes:
 - Keyword
 - Category
 - Author
 - Project



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Interconnectedness

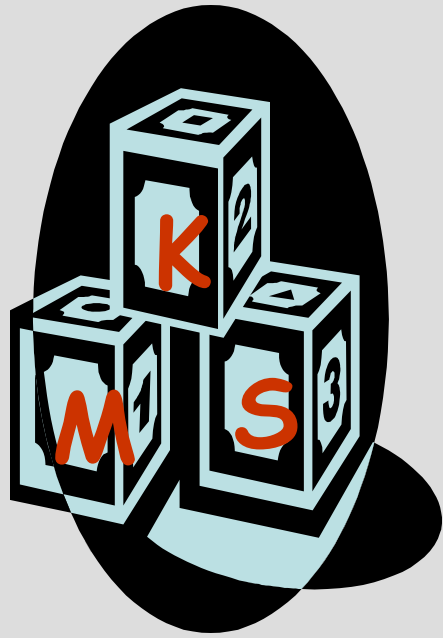
- Each nugget is connected by 3 links
- Enhances the system's search capability
- Helps connect related projects



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Technology Prototype

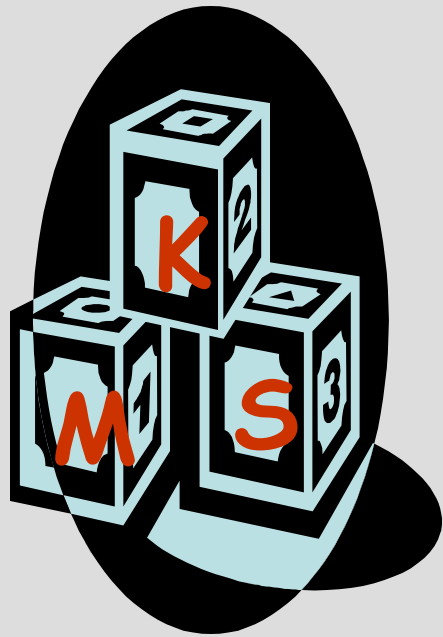
- Implemented initial design on a real software platform
- Demonstrated the basic elements of a KMS
- Exposed problems with our current design



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Team Prototype

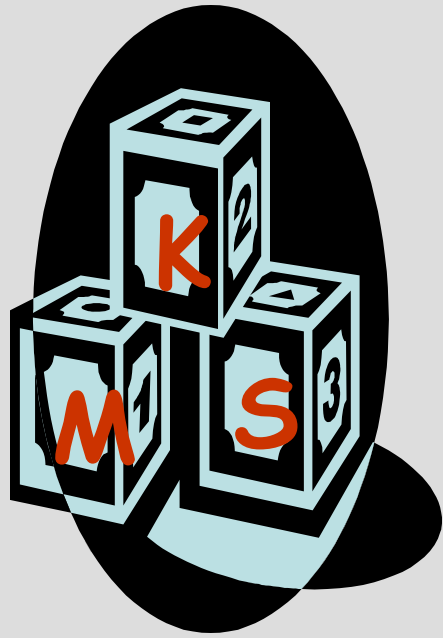
- Met with teams
- Discussed knowledge management
- Simulated nugget capture process
- **LEARNED FROM IT**



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Acknowledgements

- Director Thomas Jacobius
- Dr. David Grossman
- IPRO 324: Design of a Simulator for Mechanical Loading of Garage Door Operator Systems
- IPRO 330: Home Monitoring of the Spinal Cord Injured Patient to Prevent Hospitalization Using Web-Based Technology and Other Applications
- IPRO 315: Hybrid Electric Bicycle
- IPRO 373: Homeland Security



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Thank you for your time

- Any Questions?