



for
APQC's 2012 Knowledge Management
Conference and Training
Houston, Texas

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KM Practice Background & Context



About L-3 Communications

L-3 is a prime contractor in Command, Control, Communications, Intelligence, Surveillance and Reconnaissance (C³ISR) systems, aircraft modernization and maintenance, and government services.







Aeronautical Systems Engineering

Aeronautical Systems Engineering is responsible for aircraft modification and special mission systems integration over a wide variety of military and commercial aircraft programs.

Engineering activities include:

Electrical, mechanical, and structural design, manufacturing and production support, mechanical systems architecture design and development analysis and testing to validate aircraft worthiness including performance, loads, flutter, vibration, acoustic, stress, finite element, fatigue, and damage.









My role - Process Engineering

Monthly quality metrics reporting



- SharePoint use, architecture & training
- Process updates in department & other engineering groups
- Support MID communications, yearly goal development
- Further develop and support KM use in the department, community, and nation





KM Theory & Practice





Knowledge Management Definition(s)

"The use of knowledge (i.e., which enables direct action) for capitalization (e.g., competitive advantage, organization, productivity)." (Encyclopedia of Knowledge Management, 57)

"Efforts made by an organization to manage knowledge.

Knowledge management is a discipline that promotes an integrated approach to identifying, capturing, storing, retrieving, and transferring an organization's knowledge so as to enhance its competitive advantage."

(Encyclopedia of Knowledge Management, 875)



Myths about Knowledge Management:

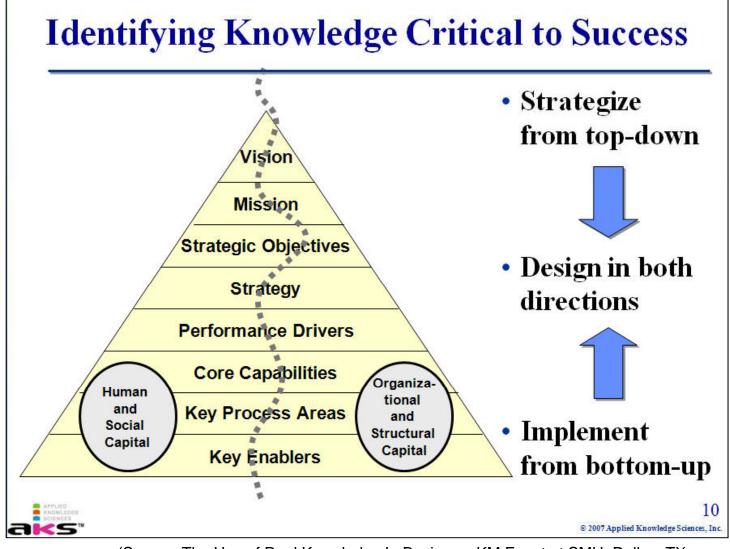
- 1. Knowledge management is a fad.
- 2. Knowledge management and data warehousing are essentially the same.
- 3. Knowledge management is a new concept.
- 4. Knowledge management is mere technology.
- 5. Technology distributes human intelligence.
- 6. Knowledge management is another form of reengineering.
- 7. Company employees have difficulty sharing knowledge.
- 8. Knowledge management only works within an organization.
- 9. Technology is a better alternative than face-to-face.
- 10. It is "no brainer" to share what you know.

(Source: Knowledge Management, Awad & Ghaziri, pg 23)





Alignment







Personal Knowledge Management (Foundation)

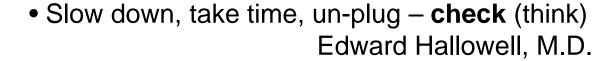
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Personal KM Foundations











Create an environment of strength for work, act (align)
 Marcus Buckingham



Alignment of outer purpose to inner purpose – do (be)
 Eckhart Tolle







Knowledge Management Methods



Mission Integration

Source:

Verna Allee

KM Concept:

ValueNet Works™ Methodology

Work Application:

Engineering measures and data analysis

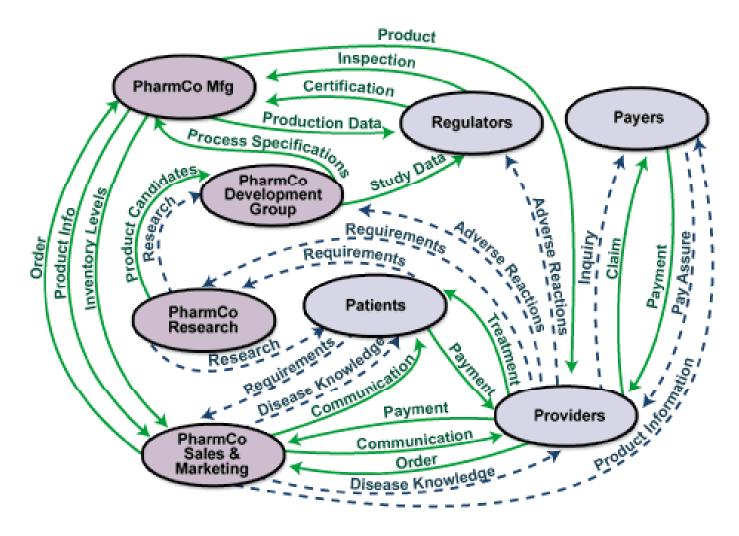
Key concepts:

- role based identification (roles)
- tangible deliverables (solid lines)
- intangible exchanges or unstructured deliverables (dotted lines)

Daily Applications in Knowledge Management (Aerospace)

Aeronautical Systems ENGINEERING Communications Identify Indignation

KM Method – ValueNet Work™ Analysis



Example - Value Map (Verna Allee)





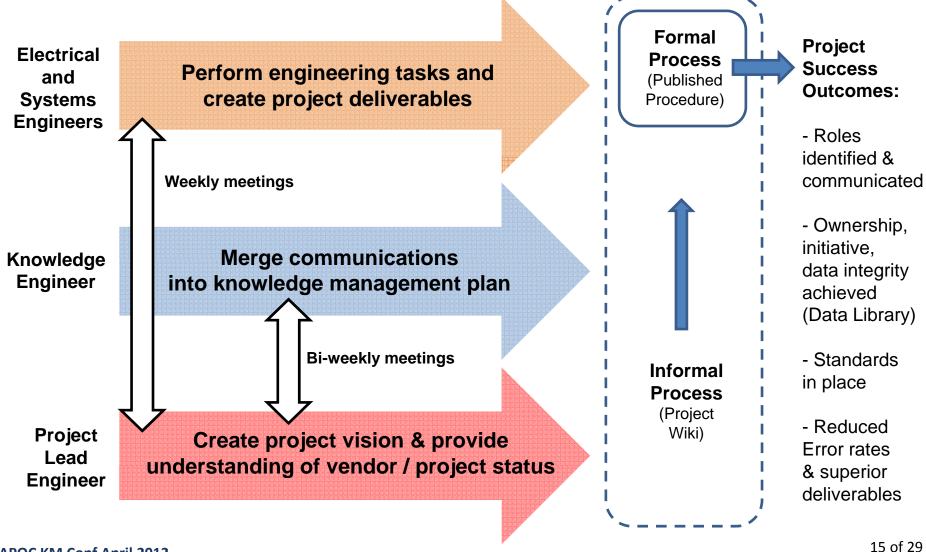
Daily KM Projects, Technology, & Tools

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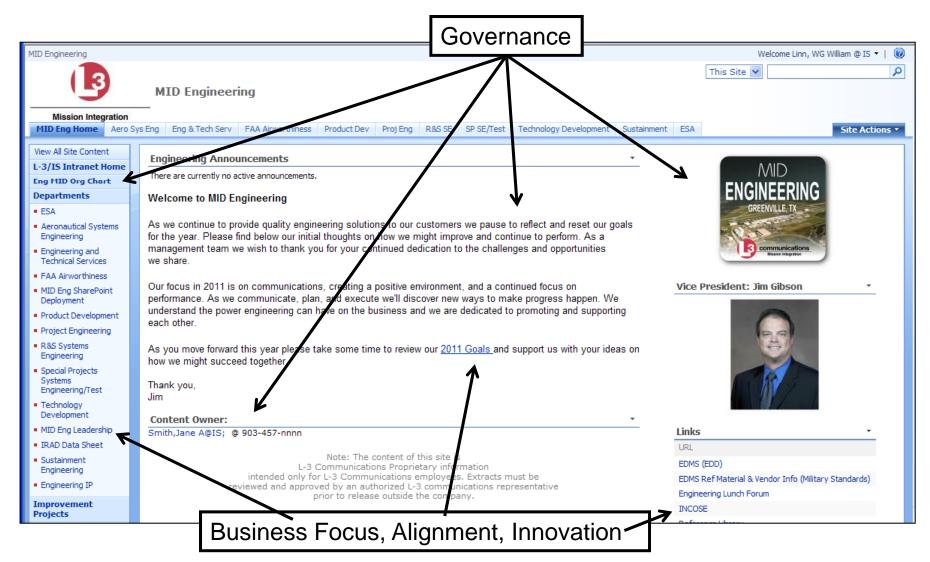


Capital Performance Project (Vision)







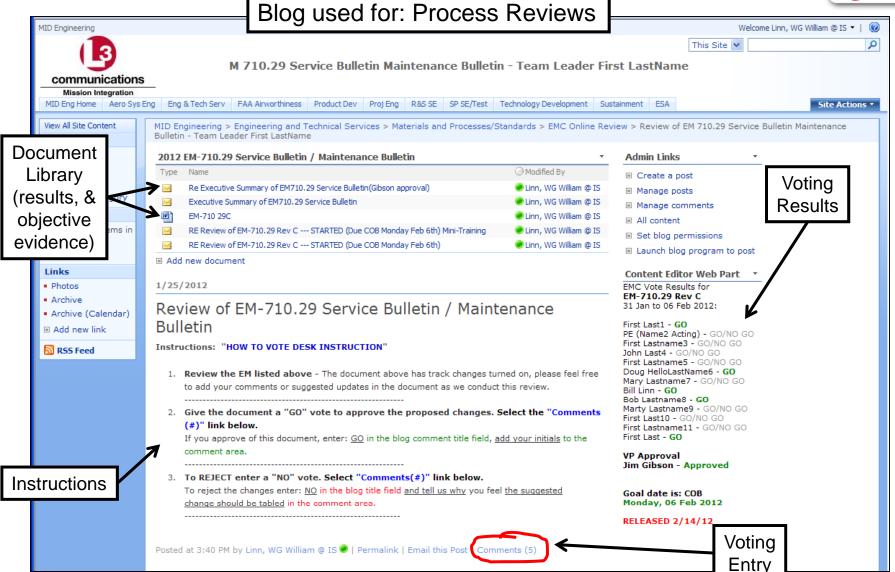


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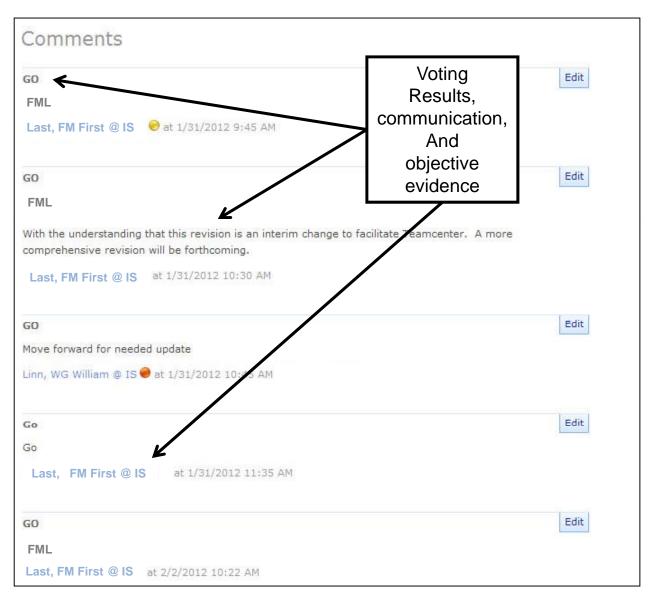
Mission Integration





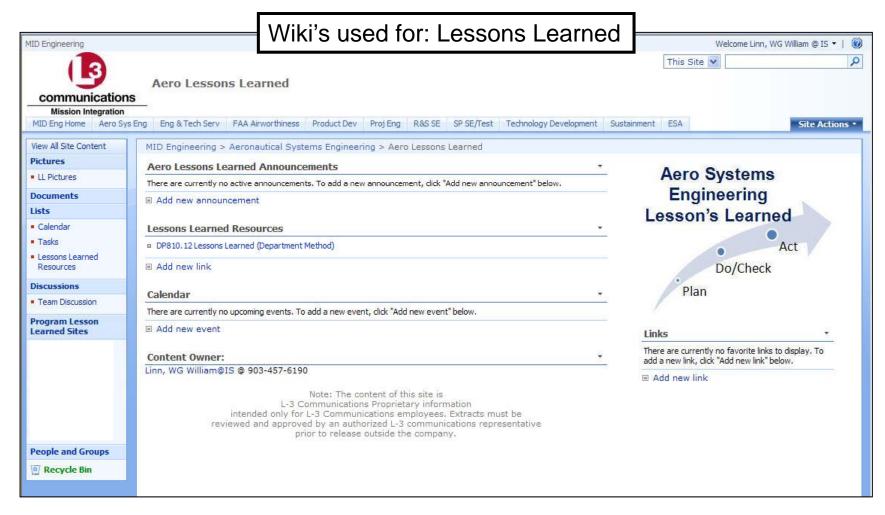


Mission Integration





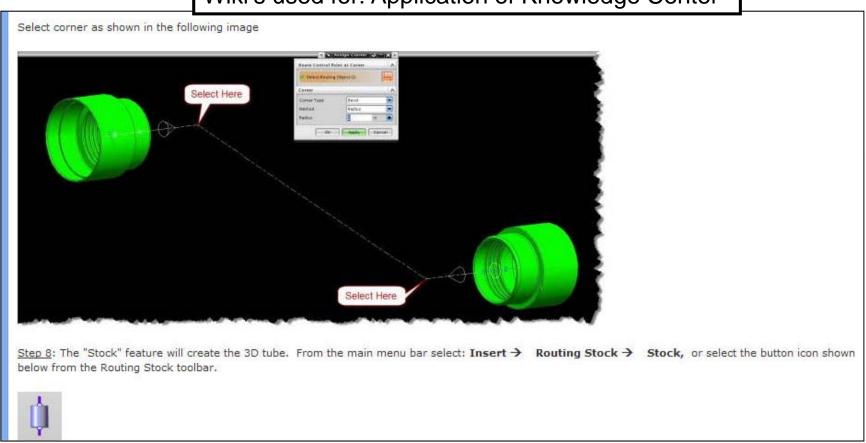








Wiki's used for: Application of Knowledge Center

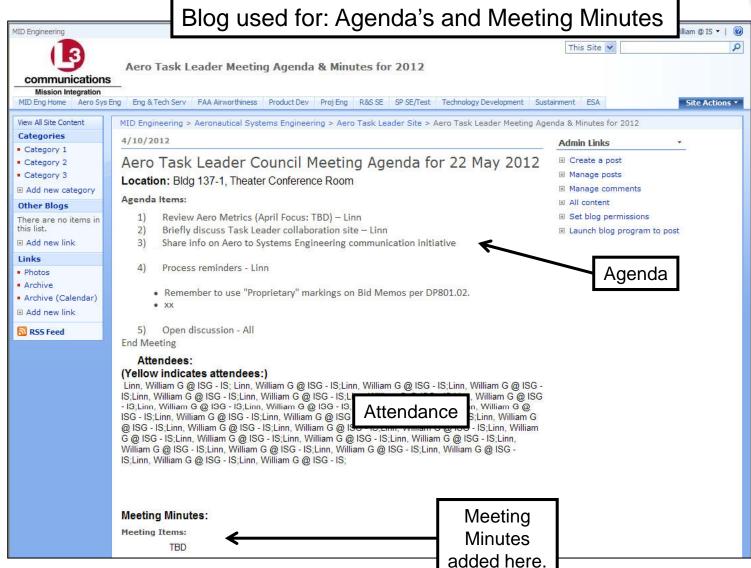




Aeronautical Systems.
ENGINEERING

Communications
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Mission Integration

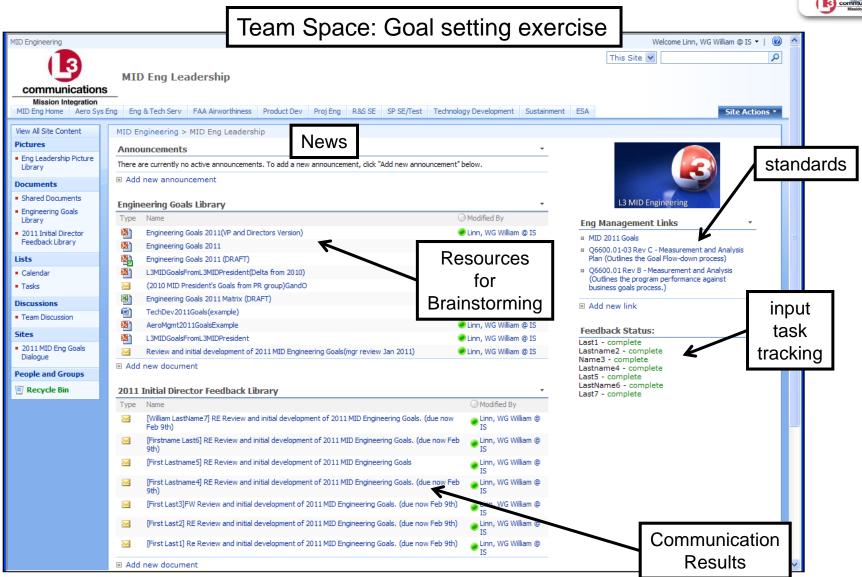


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Mission Integration

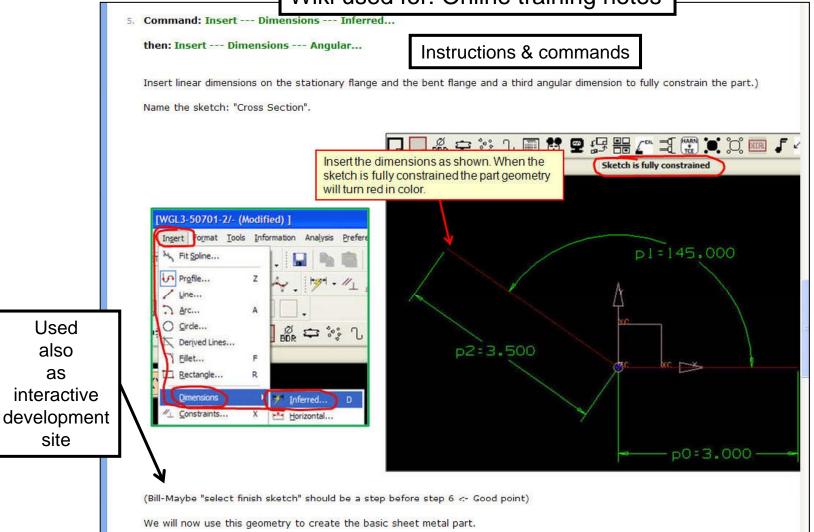






Mission Integration

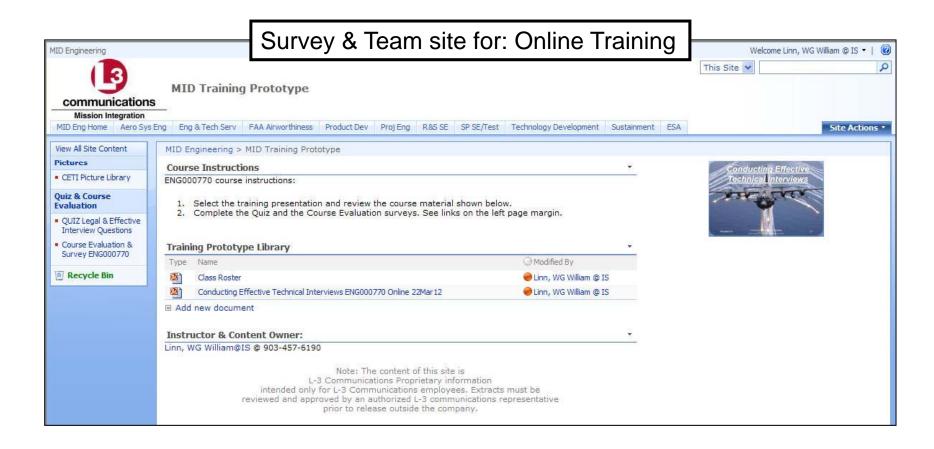
Wiki used for: Online training notes



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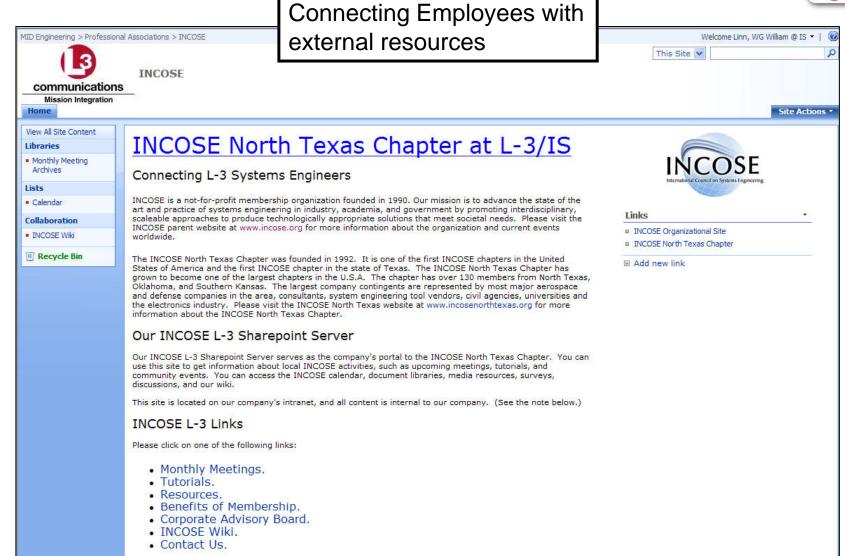








Mission Integration



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Local and National KM Development



Inside L-3



- Mechanical engineering mentoring development
- Information Architecture & Quarterly SharePoint discussions
- Consulting on divisional mentoring programs
- L-3 Learning & Performance Community of Practice
- L-3 KM Community of Practice





Outside L-3

ne knowledge management association



- Mission, Vision, and Goals created
- Web site in development and local Chapters forming
- Development teams in work and volunteer base growing
- Partnerships and Special Interest Groups (SIGs) forming







Questions?

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