



# Crosscut Panel

2008 Project Submissions

# Crosscut Panel Projects

## 3 White Papers Developed for Prioritization

- Methods and Tools to Increase the Adoption of Existing Skill Standards (Navy Request)
- Leadership 2010 (Improving Supervision through TWI)
- Shipbuilding Technology Workshops (Tom Lamb)

# Crosscut Panel Projects

## ■ Voting Results

<b>Project</b>	<b># Votes – 1st Choice</b>	<b># Votes – 2nd Choice</b>	<b># Votes – 3rd Choice</b>
Increase the Adoption of Existing Skill Standards	9 (7)	6 (5)	2 (1)
Leadership 2010	8 (6)	8 (7)	1 (0)
Shipbuilding Technology Workshops	0	3 (1)	14 (12)
<b>Totals</b>	<b>17</b>	<b>17</b>	<b>17</b>

# Crosscut Panel Projects

## ■ Voting Results

<b>Project</b>	<b>Score</b>	<b>Rank</b>
Increase the Adoption of Existing Skill Standards	41 (40)	1
Leadership 2010	41 (40)	1 (tie)
Shipbuilding Technology Workshops	20 (20)	3

# Crosscut Panel Projects

## Selected Comments – Skill Standards

- Several yards agreed to support and implement
- One yard would strongly support and take part in development
- One not likely to implement
- One comment that project should incorporate Career Readiness Certificate (CRC) and WorkKeys
- A few comments that yards are trying to implement standards and help is welcome

# Crosscut Panel Projects

## Selected Comments – Leadership 2010

- Several yards agreed to support and implement
- A few yards would strongly support and take part in development or provide cost share
- A few comments that TWI has proven to be a useful tool for training
- One comment that project will complement the Skill Standards project
- One comment that strict adherence to TWI principles may be impractical in a small yard

# Crosscut Panel Projects

## Selected Comments – Shipbuilding Workshops

- Several yards agreed to support
- One comment that ROI did not appear satisfactory
- One positive comment from previous attendee
- One yard not likely to use results in the near future
- One comment that workshops are needed to keep up with changing technology
- One comment that the Shipbuilding Career Days format is preferable

# Leadership 2010: *Improving Supervision*

Panel: Crosscut

40/100

PROGRAM INFORMATION	OBJECTIVE
<p><b><u>Prime/Lead:</u> Alaska Ship &amp; Drydock</b></p> <p><b><u>Team Members:</u> NGSB-NN, Brownsville Marine, Studio Trifusion LLC, TWI Institute</b></p> <p><b>Duration: 9 months</b></p>	<p><b>Adapt and pilot the proven Training Within Industry learning materials in an instructional design and delivery format with shipbuilding and repair examples</b></p>
DELIVERABLES/BENEFITS/ROI	FINANCIAL
<ul style="list-style-type: none"><li>• <b>Self-teaching modules for basic theory and principles of Job Instruction, Job Methods Improvement, Job Relations (leadership), and Program Development</b></li><li>• <b>TWI Program delivery guide for shipyards. Instructions for group discussion and practice.</b></li><li>• <b>Pilot application of the material at a shipyard</b></li></ul>	<p><b>Program Funds: \$89,800</b></p> <p><b>Cost Share: \$21,800</b></p>

# Leadership 2010: *Improving Supervision*

## Panel: Crosscut

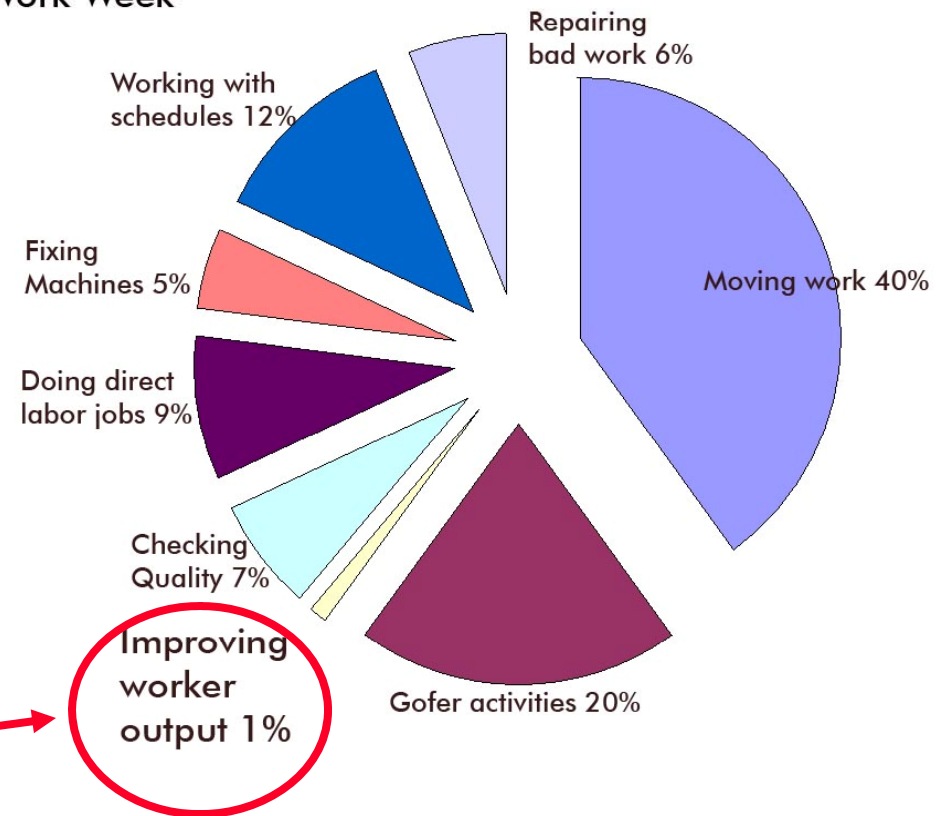
**Of the 600 client companies monitored**

- **86% increased production by at least 25%**
- **100% reduced training time by 25% or more**
- **88% reduced labor-hours by over 25%**
- **55% reduced scrap/rework by at least 25%**
- **100% reduced grievances by more than 25%**

Training Within Industry (TWI) is the 'secret' core of Japanese lean production success.

Toyota is the most publicized example

Average Supervisor Work Week



# Methods and Tools to Increase the Adoption of Existing Skill Standards by U.S. Shipyards

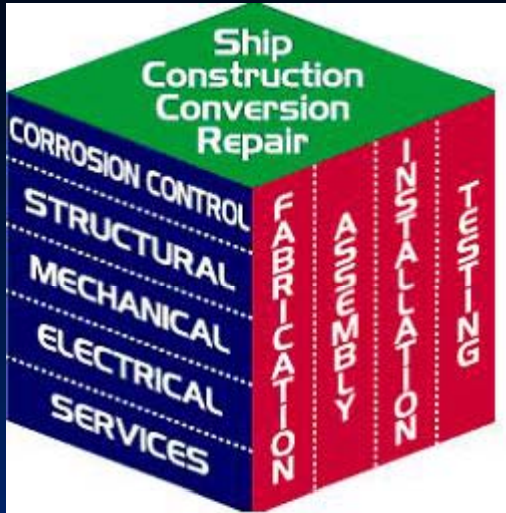
Panel: Crosscut

40/100

PROGRAM INFORMATION	OBJECTIVE
<p><b>Prime/Lead: Alaska Ship and Drydock</b></p> <p><b>Team Members: Alabama Technology Network the Gulf States Shipbuilding Consortium (GSSC); other NSRP shipyards; non-shipyard industrial base</b></p> <p><b>Duration: 12 months</b></p>	<p><b>To develop and publish a web-based repository for shipyard skill standards that will allow for interoperability of yard personnel</b></p>
DELIVERABLES/BENEFITS/ROI	FINANCIAL
<ul style="list-style-type: none"><li>• <b>Lessons learned and recommendations</b></li><li>• <b>Increase the adoption of existing skill standards by U.S. shipyards.</b></li><li>• <b>Eliminate or reduce time and cost for incumbent worker re-training (a type of rework) and certification for interoperable and virtual work</b></li></ul>	<p><b>Program Funds: \$100,000</b></p> <p><b>Cost Share: \$28,600</b></p>

# Methods and Tools to Increase the Adoption of Existing Skill Standards by U.S. Shipyards

## Panel: Crosscut



NSRP Skill Standards Database

Make skill standards part of design for production or repair – like common parts and materials

- Break down work and jobs
- Database of skill standards elements
  - for teaching and learning
  - assessment & certification
  - for estimating and doing the jobs
  - toward common performance and quality standards



Elements of a specific skill standard

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Flexibility  
Predictability  
Common terminology  
& curriculum  
One yard-Any Yard Work  
'Virtual' shipyard enabler

# Shipbuilding Technology Workshops

Panel: Crosscut

20/100

PROGRAM INFORMATION	OBJECTIVE
<p><b><u>Prime/Lead: Innovative Marine Product Development, LLC</u></b></p> <p><b><u>Team Members: NASSCO</u></b></p> <p><b>Duration: 6 months</b></p>	<p>Improve the knowledge of shipbuilding company employees, and those of their supporting organizations, as well as the U.S. Navy and USCG</p>
DELIVERABLES/BENEFITS/ROI	FINANCIAL
<ul style="list-style-type: none"><li>• Workshop module material including examples</li><li>• Presentation of the workshop in up to eight locations</li><li>• Improve design and production processes leading to: cost avoidance, reduced re-work and waste, shortened production</li></ul>	<p><b>Program Funds: \$100,000</b></p> <p><b>Cost Share: \$-</b></p>

# Shipbuilding Technology Workshops

## Panel: Crosscut

One Week Workshop objective: give attendees an understanding how leading shipyards in the world approach SHIPBUILDING including

- **Shipyards Layout**
- **Shipbuilding Equipment**
- **Shipbuilding Best Practices**
- **Productivity**
- **Design for production**
- **Cost estimating**
- **Group Technology/Work Breakdown Systems**
- **Planning & Scheduling, PLANNING/SCHEDULING.**
- **Alternative modules for ship design in the USA and ship acquisition in the USA**