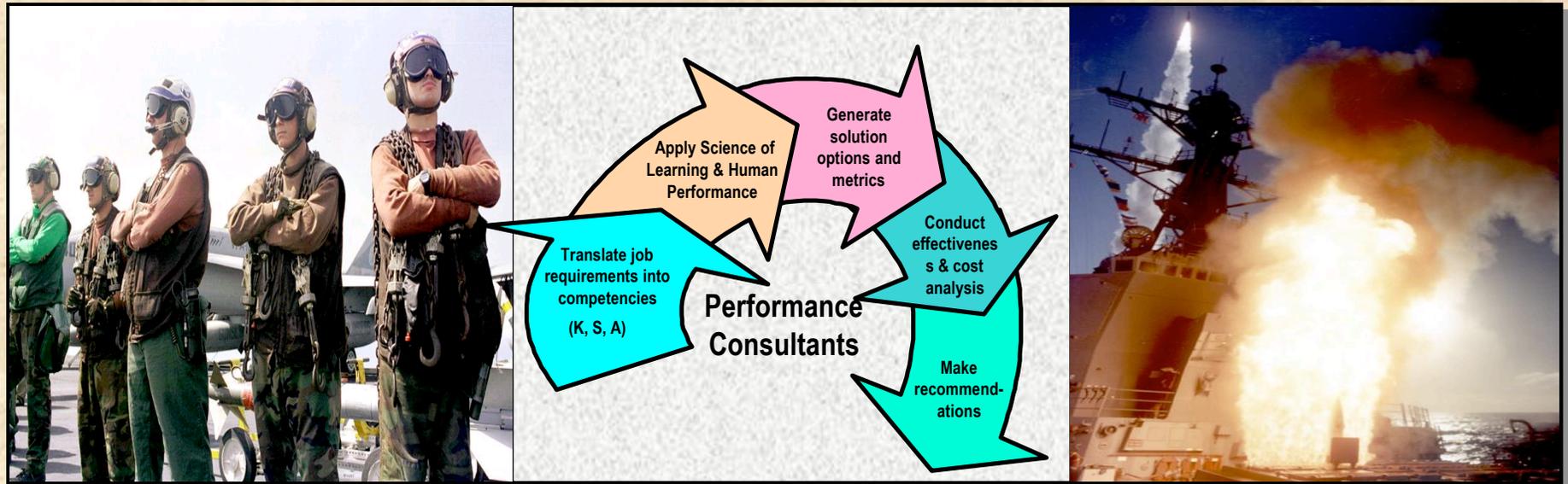




Human Performance Center

Human Performance Center



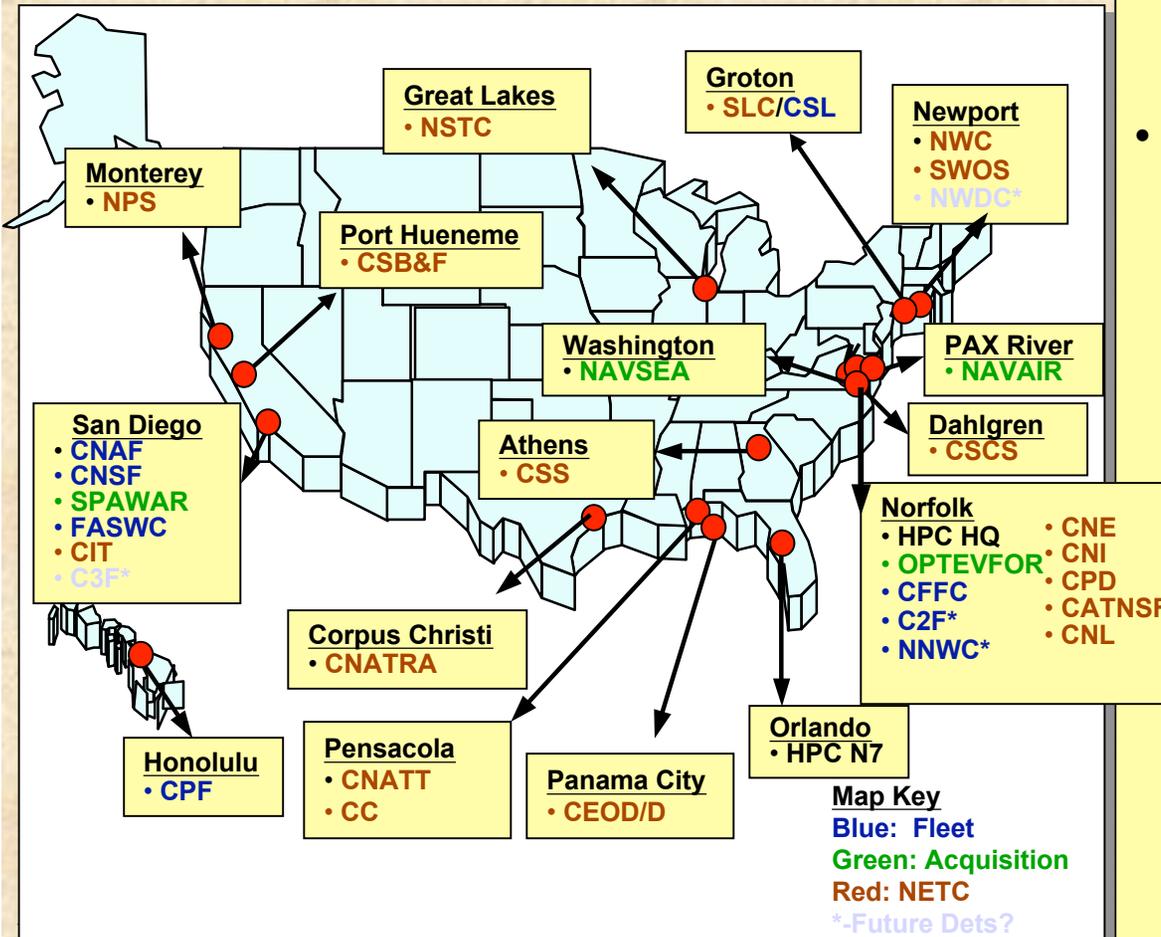
*2003 Undersea
Human/Systems Integration Symposium*



Human Performance Center

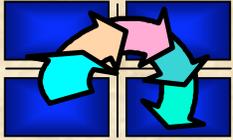
HPC – Phased Implementation

The HPC ... A corporate Navy organization supporting the Sailor (NETC/CNP), the Fleet and the Acquisition community

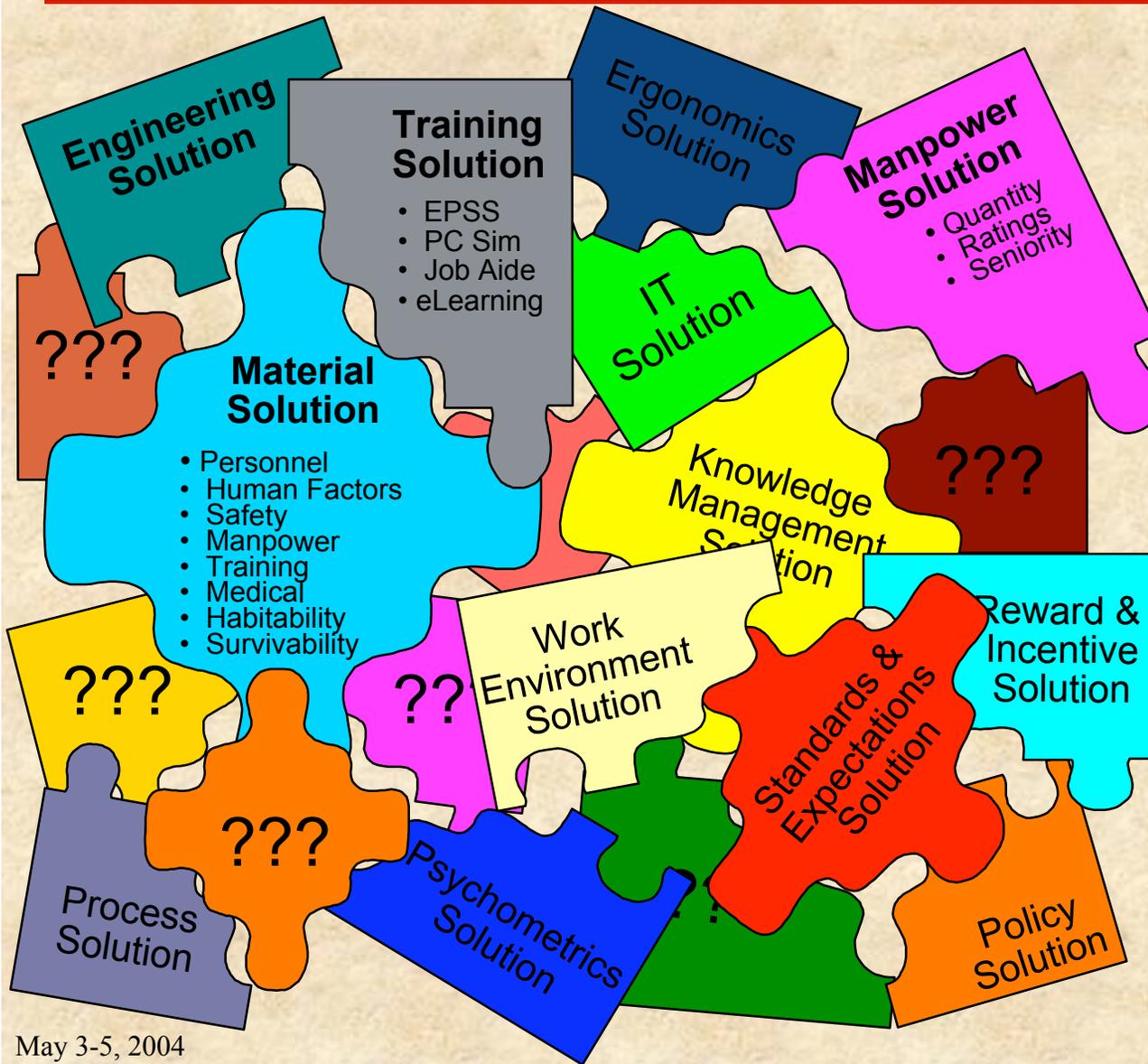


- FY02 (TFE HP Cell)
- FY03 (Provisional HPC)
 - 16 sites
 - 75-85 temporary personnel
 - NPDC & NSTC
- FY04 (HPC)
 - 29 sites
 - 171 permanent personnel (141 Civilian, 30 Military)
 - Formal Training
 - Fleet, Acquisition, CNATRA, NWC, NPS
 - Current Manning

	Temp	Perm	FY04 Goal
Mil	5	3	30
Civ	13	56	141
Contr	19	N/A	N/A
Total	37	59	171



What is Human Performance?



- Human Performance addresses all factors that impact the ability of personnel to achieve the desired level of performance.
- Performance deficiencies are evaluated at the individual, team and organizational levels.
- Human Performance analyses are typically focused on problems that have resisted traditional solutions.... because they can't be solved by a single discipline.

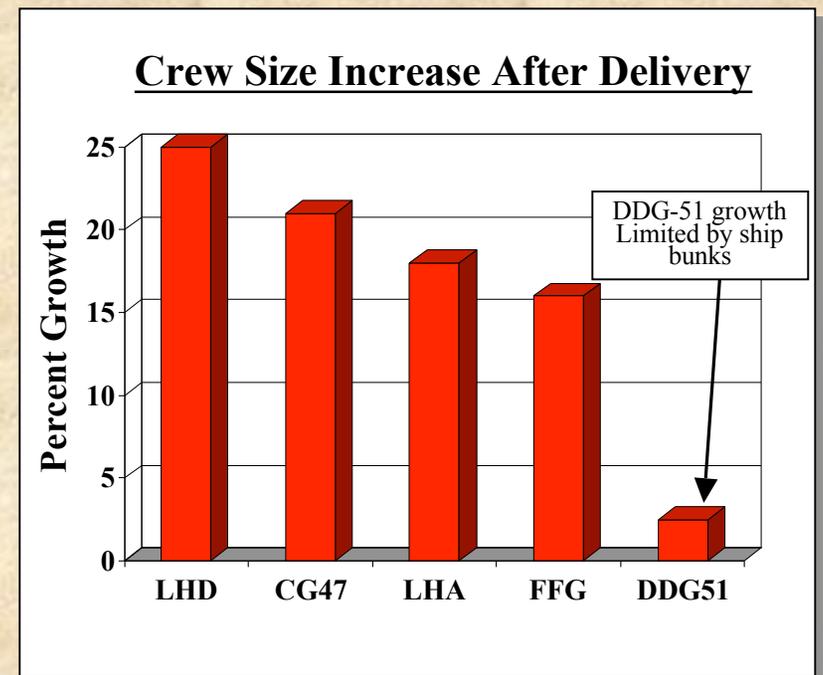


HSI Challenges

Lack of focus on the human component results in increased manning, more complex and ineffective training...increased costs & reduced performance.

ERNT 2001

- The acquisition community has historically focused on hardware delivery
 - Focus is on IOC schedule & costs...not Total Ownership Costs
 - Manpower & training not considered a key factor
- HSI has been in existence for years. A major cultural change will be required...





HSI vs. HPI

Human Systems Integration (HSI)

- A disciplined approach to define a human's interaction with a platform, equipment, or system. Optimizes the relationship between the human and the system by integrating:
 - ✓ Human Factors
 - ✓ Manpower
 - ✓ Personnel
 - ✓ Training
 - ✓ Safety Factors
 - ✓ Medical Factors
 - ✓ Habitability Considerations
 - ✓ Personnel Survivability
 - ✓ Health Hazards
- Initiated by a requirement for system acquisition.
- Used throughout the acquisition process of a system or equipment, including post-delivery.
- Assumes a materiel solution. Focuses on the effective design, development & implementation of that solution.
- Ultimate goal is to improve total system performance and reduce life-cycle costs.
- Based on Systems Engineering Model. Uses rigorous design processes and data collection tools such as human performance modeling and standard engineering tools. Emphasizes spiral development and performance centered design
- Relies on human factors consultants, human engineers, logisticians, systems engineers, and contractors.

Human Performance Improvement (HPI)

- A systematic approach to identifying, assessing, and resolving performance issues. Can be applied at the individual, unit, and/or organization level, and it frequently determines that a number of problems exist. Specifically considers:
 - ✓ Manpower
 - ✓ Personnel
 - ✓ Training
 - ✓ Environmental Issues
 - ✓ Rewards & Incentives
 - ✓ IT
 - ✓ Knowledge Management
 - ✓ Material Solutions
 - ✓ Etc, Etc
- Initiated by a request to improve performance.
- Starts with a clearly defined business problem that is measured in terms of, cost, quality, quantity, and/or timeliness...and is open to all potential solutions.
- Will typically produce a "blended" solution
- Ultimate goal is to improve organizational effectiveness & efficiency by identifying and removing barriers to human performance.
- Follows the entire life cycle of a project from goal identification through mission analysis, performance analysis, root cause analysis, intervention selection, implementation, and evaluation.
- Relies on performance consultants, stakeholders, resource sponsors, performers, and intervention designers.



A Few Final thoughts...

- Sea Warrior Job Task Analysis (JTAs) should provide the common linkage for work across the Navy
- Define and apply Science of Learning
- Need to understand the “white space” between HSI & HP
 - Develop KSATs
 - 5 Vector Model Development
 - NPS Curriculum
 - HP Lab

The HPC's Product is...
Improving Performance !