

3FAST

Fast Field Fluid Assessment
Support Tools

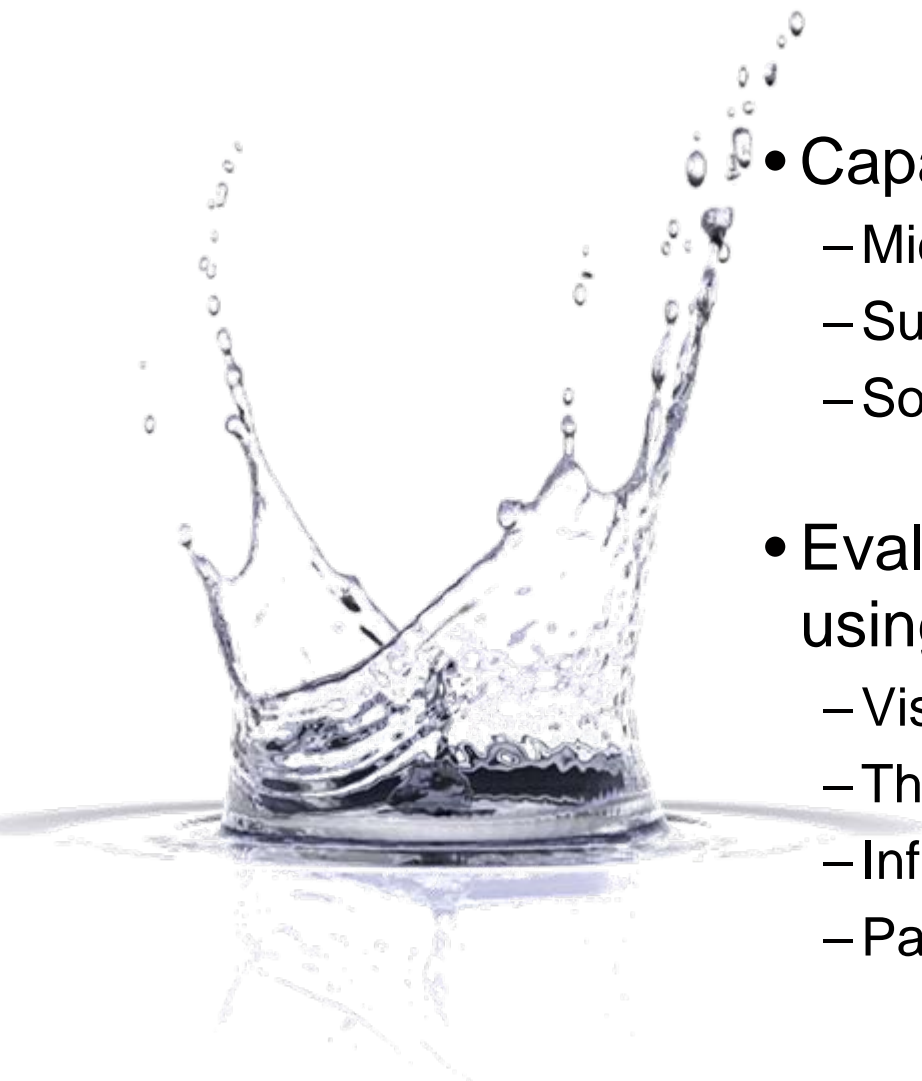
Technology Transition Efforts

2008 Great Ideas Award Winner

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Technology Overview



- Capability to assess component health
 - Mid IR Spectroscopy
 - Surface acoustic wave sensor
 - Solid state technology
- Evaluate Fluid Quality on demand using a handheld device
 - Viscosity
 - Thermal conductivity
 - Infrared spectroscopy
 - Particle counting

3FAST Technology Insertion Process



1. Clearly Articulate *the* Problem *in Warfighter customer terms*

Excessive time to receive analysis of fluid after scheduled maintenance. As a result, assets may be inoperable until receipt of information.



2. Identify *the* **Solution** **Benefits** *in Warfighter* *customer terms*

Receive immediate feedback to take appropriate action and to allow Marines, Sailors, Airmen and Soldiers to maintain asset readiness.



3. Develop a Resourcing Strategy

- Identify the TRL / MRL
 - TRL-Near COTS for certain applications
 - MRL-Commercial manufacturing standing up Jan 09
- Budget Process
 - Understand the money trail
- Identify advocates & champions
- Minimize investment through collaboration
- Execute Business Case Analysis (BCA)
 - Army Oil Analysis Program is creating BCA



4. Develop *a* Technology Insertion *Roadmap*

Key Stakeholder – formed
Integrated Product Team that
are vital for successful transition.

JTEG workshop in JAX



5. Develop a Sales Campaign *Strategy*

- Consider order of operations
- Sensitivity to chain of command
- Message is tailored for each stakeholder, i.e. Armed Services
- Identify Champions at all levels
 - USA – G4 / AMC / AOAP
 - USAF – AFMC / JOAP
 - USN – NAVSEA / NAVAIR
 - USMC – MARCORSYSCOM / HQMC
LOGCOM

3FAST CurrentState

- IPT has been formed and meets monthly
 - Representation from all Armed Services
- Field Evaluations underway
 - Fort Campbell
 - FRC Southeast (H-46)
 - Escambia County, Sherriff's Department
 - Fort Eustis
 - Aviation Engineering Directorate
Redstone Arsenal
 - NAVAIR (in process)
 - Army Oil Analysis Program (in process)
- Further development based on customer feedback
 - Viscosity, particle count, wear debris analysis





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