

# SSEI Research Task Summary – T2

Task Number: SSEI/T2

Lead Delivery Organisation : University of York

Project Title : Evidence-based Management

Research Theme : *Management of Software Systems Projects*

Version : 3



## Objective of Work (why are we doing it ?)

The objective of the work is two-fold:

- To enable the acquisition organisation, Integrated Project Teams, Delivery Teams and supply chains to improve the collective performance of software engineering across the contractual and other interfaces involved, leading to improvement in project performance and outcomes.
- To provide organisations with the means to generate and use reliable evidence and measures to support decision making in Software Engineering Management.

## Nature of Work (what is it?)

Engineering Management is an area of professional practice that can play a key role in improving the performance of defence acquisition programmes. It focuses on the planning, monitoring and supply-chain coordination of software engineering tasks and related product and service outcomes. It can be thought of as managing the *delivery of software engineering capability* to projects, the missing piece of the jigsaw between process improvement (e.g. Capability Maturity Model Integration) and project management.

Decision-makers in Engineering Management roles require accurate and dependable information. This task addresses research issues concerned with meeting these needs, focussing on the identification of key technical measures and decision-support mechanisms and their application throughout the procurement lifecycle

## Outcomes (what will it produce/has it produced ?)

Core Research - strategy reports on:

- Software Engineering Management Capability to Improve Project Performance
- Measurement Principles for the Engineering Management of Software-Intensive Systems
- Measurement Guidance for the Engineering Management of Software- Intensive Systems

Case Study Engagements – collaborative, practical studies on:

- Delivering evidence-based practice and decision support to projects, developing and sharing practical guidance, models, key technical measures.

Timescales 36 month task, March 2008 to March 2011

### Partners

Related Work SSEI/T3

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