

# SSEI Research Task Summary – T3

Task Number: SSEI/T3

Lead Delivery Organisation : YorkMetrics

Project Title : Evidence-based Infrastructure

Research Theme : *Management of Software Systems Projects*

Last Updated : November 2009



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

The objective is to provide guidance for suppliers and acquirers of software dependent systems in the use of evidence-based decision making. It supports the long term objective of developing shared evidence-based practices across acquisition and supplier communities.

Research is needed to establish an appropriate infrastructure to support evidence-based decision making. This will address questions such as “How can engineering managers be provided with the information they need to fully manage technical progress, risk and resources in the acquisition and development of software dependent systems?”

## Nature of Work (what is it?)

The subject of this work is the integrated performance of UK defence projects that involve software-intensive systems;

- By integrated, is meant acquirer, prime, supply chain and support roles.
- By performance is meant how engineering management, project management and engineering activities are enacted and coordinated. The focus is on organisational systems and processes that bring a product into being. Product properties and technical measurement are crucially important.

The central concern is how to bridge between technical, engineering and project performance measurement frameworks.

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

- Measurements and indicators that lead to improved, more objective information for decision-makers;
- Common evidence framework for programme management, acquisition and supplied systems and services;
- Common information models, analytical models and measurement processes to foster shared understanding through supply chains;
- Integration of key technical performance parameters into the common measurement framework, as measurement research advances in specialty fields (e.g. information assurance).

Timescales      36 month task, March 2008 to March 2011

### Partners

Related Work      SSEI/T2, SSEI/T14, SSEI/T15

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