Decision Support for Manufacturing Technology Investment

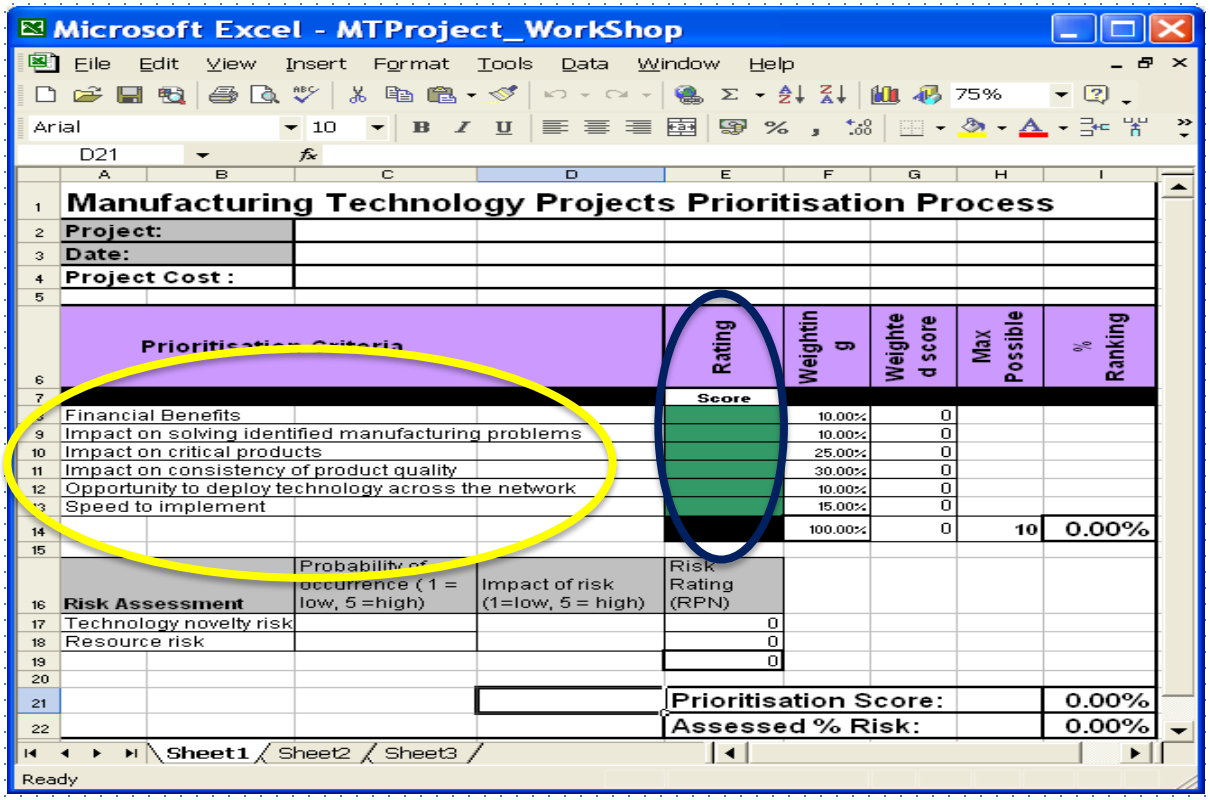
How to prioritise technology projects for investment

- Complex decisions - dynamic, unknown factors
- No standard rules for making decisions
- Rely heavily on human expertise & experience

An AI Decision Support Tool

- Data Collection

An evaluation form to capture relevant data: (i) cost; (ii) prioritisation scores such as technology novelty rating, intellectual property potential, impacts on improving customer services; and (iii) risk factors such as resource risk, benefit delivery risk and technology novelty risk



An AI Decision Support Tool

- Use AHP/ANP to capture evaluation criteria from domain experts
- Apply AI models to process assessment scores from domain experts
- Deduce reasoning from AI models to provide justifications