

NOVEMBER 4 & 5 HOUSTON, TEXAS

## How to Solve the Project Performance Problem

## Todd R. Zabelle











9%

did not meet cost or schedule met either cost or schedule

met both cost and schedule met cost, schedule, production attainment

Figure 1. Data source: Independent Project Analysis (IPA).





# Why?











1910's Era-1 Productivity 1960's Era-2 Predictability 2000's Era-3 Profitability









Separation of planning from doing Time study Advent of 8 functional foremen Piece work based compensation Gantt or bar chart







**Project management**, then, is the application of knowledge, skills and techniques to execute projects effectively and efficiently. It's a strategic competency for organizations, enabling them to tie project results to business goals — and thus, better compete in their markets.

It has always been practiced informally, but began to emerge as a distinct profession in the mid-20th century. PMI's *A Guide to the Project Management Body of Knowledge (PMBOK® Guide)* identifies its recurring elements:

Project management processes fall into five groups:

- Initiating
- Planning
- Executing
- Monitoring and Controlling
- Closing

Project management knowledge draws on ten areas:

Integration	Scope	Time
Cost	Quality	Procurement
Human resources	Communications	Risk management
Stakeholder management		







Kelley & Walker

TUDORPICKERING HOLT & CO | ENERGY INVESTMENT & MERCHANT BANKING





PROJECT PRODUCTION

Project as Production SystemOperations Science5 Levers of Optimization

TUDORPICKERING



#### Average well costs (USDm) by operator for similar wells, 2012-17











© 2018 Chevron











# Gap







#### Schedule = Should Happen

#### Production System = Can and Will Happen



Dates & Progress

Rates / Throughput





#### PROJECT MANAGEMENT



#### PROJECT PRODUCTION MANAGEMENT









# CT = WIP / THCT = RPT + BT + MT + QT + SDT + WTMT + PTBRPT = PT + ST + DT













### Inventory is the proxy for time

More inventory, more time, cost and use of cash

### Therefore a leading performance indicator













### 1.2 What is a Project?

A project is a temporary endeavor undertaken to create a unique product, service, or result. Project Management Institute (2012-09-01).

#### 1.5.1.1 Operations Management

Operations management is a subject area that is outside the scope of formal project management as described in this standard.

Operations management is an area of management concerned with ongoing production of goods and/or services. It involves ensuring that business operations continue efficiently by using the optimum resources needed and meeting customer demands. It is concerned with managing processes that transform inputs (e.g., materials, components, energy, and labor) into outputs (e.g., products, goods, and/or services).

A Guide to the Project Management Body of Knowledge (PMBOK® Guide)—Fifth Edition (ENGLISH) (Kindle Locations 601-602). Project Management Institute. Kindle Edition.





## projectproduction.org





