

















POPULATION INFORMATICS Definition **IT-Enabled Value** Tangible (measurable value) & intangible (difficult to measure value) • Tangible: Increases in revenue, fewer errors, reduction in turnover, etc. • Intangible: Improved decision making, communication, compliance, etc. Significant organizational value Quality of diabetes care outcome: Use of EHR had 15% better care outcomes compared to paper-based sites A cross sectional study of hospitals in Texas found that higher levels of the automation of notes and patient records were associated with a 15% decrease in the adjusted odds of a fatal hospitalization Variable across organizations • Organizations may focus on different objectives Diverse across IT proposals Diverse value in a single investment Different analyses for different objectives (see next slide) 10



















Problems with software development Computerworld magazine "Nearly one-third of all projects fail" "More than half come in over budget" "Only 16% of all projects come in on time and on budget" Survey of 8000 projects from 385 companies. Key factor for success or failure: "User involvement/input"















POPULATION INFORMATICS

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Summary

- Definition of IT-enable value
- Differing objectives for projects
 - Infrastructure
 - Mandated
 - Cost reduction
 - Specific new products and services
 - \circ Quality improvement
 - $\circ~$ Major strategic initiative
- Scoring objectives

- Reducing the budget
- Common proposal problems
 - $\circ~$ Fractions of effort
 - $\circ~$ Reliance on complex behavior
 - Unwarranted optimism
 - Shaky extrapolations
 - $\circ~$ Underestimating the effort
 - Fairy-tale savings
 - $\circ~$ Failure to account for post-implementation costs

ummary	
Ensuring the delivery of value	 Shorten the deliverables cycle
$_{\odot}~$ Make sure homework was done	 Benchmark value
 Require formal project proposals 	 Communicate value
\circ Increase accountability	The IT value challenge
$_{\circ}~$ Manage the project well	 How to measure?
 Manage outcomes 	 Progressive realization
\circ Conduct post-implementation audits	 Digital maturity
\circ Celebrate value achievement	 Digital intensity
 Leverage organizational governance 	 Transformation management intensity









