

DCG Five by Five Softwaresm Cost Offering:

Clearly understand your costs

Measure 5 Projects Once - Cut costs 5 times

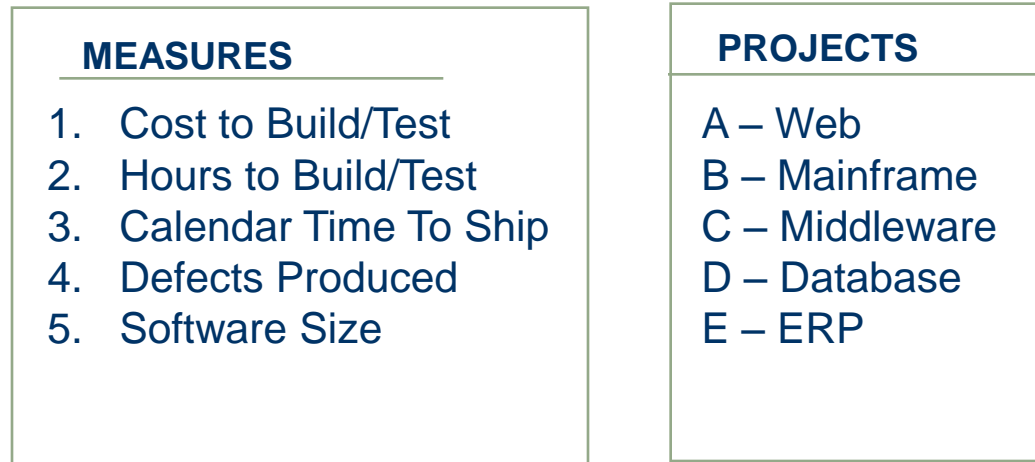
5 Weeks - \$5,000 dollars

Reducing Your Cost Waste...

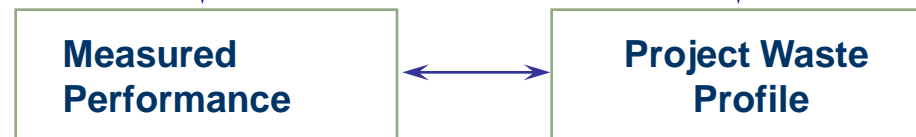
- All software product development/production wastes money on people, process and tools
- The most successful producers waste the least
- Software process waste starts with Cost Identification
- Five by Five Software Cost Project
 - Measure 5 Software Projects Once
 - Identify 5 Immediate Cost Waste Points for mitigation
 - Completed in five Weeks for \$5,000 dollars
 - Money back guarantee

Measure 5 Projects Once....

Waste Discovery



Analysis



Results

Project Waste Profile helps you answer these questions:

1. Could we have built for less cost, in fewer hours, shipped sooner with fewer defects?
2. Could another team have helped or done better?



Step 1: : Measure 5 Projects Once....

COLLECT PRODUCTION DATA

1. Cost to Build/Test
2. Hours to Build/Test
3. Calendar Time To Ship
4. Defects Produced
5. Software Size

Quantitative Production Data

- Collect data on project cost to build/test; hours to build/test, calendar time to ship, defects produced and quality.
- Perform functional sizing on all 5 projects.
- Calculate Productivity and Waste metrics on each project functional size delivered per staff month, cost per

Measured Performance

	Project A	Project B	Project C	Project D	Project E
Project Size	133	532	665	399	178
FP/SM	10.7	10	12	9	14
Time-To-Market	6.9	7	8	6	9
Cost/FP	\$939	892	1033	798	1258
Defects/FP	0.0301	0.0286	0.0331	0.0256	0.0403



Step 2: : Measure Waste Points

SAMPLE DATA

Project Name	Profile Score	Cost to Build/Test	Hours to Build/Test	Cal Time to Ship	Defects Produced	Size
A- Web	55.3	47.73	82.05	50.00	46.15	43.75
B-Mainframe	27.6	50.00	48.72	11.36	38.46	0.00
C-Middleware	32.3	29.55	48.72	0.00	42.31	37.50
D-Database	29.5	31.82	43.59	0.00	30.77	37.50
E-ERP	44.1	31.82	53.85	34.09	38.46	53.13
Aggregate	22.8	31.82	38.46	0.00	11.54	25.00

Waste Points:

- Cost to Build/Test
- Hours to Build/Test
- Calendar Time to Ship
- Defects Produced
- Ideal Size



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E-ERP	44.1	31.82	53.85	34.09	38.46	53.13
Aggregate	22.8	31.82	38.46	0.00	11.54	25.00

Baseline Productivity	
Average Project Size	133
Average FP/SM	10.7
Average Time-To-Market (Months)	6.9
Average Cost/FP	\$939
Delivered Defects/FP	0.0301

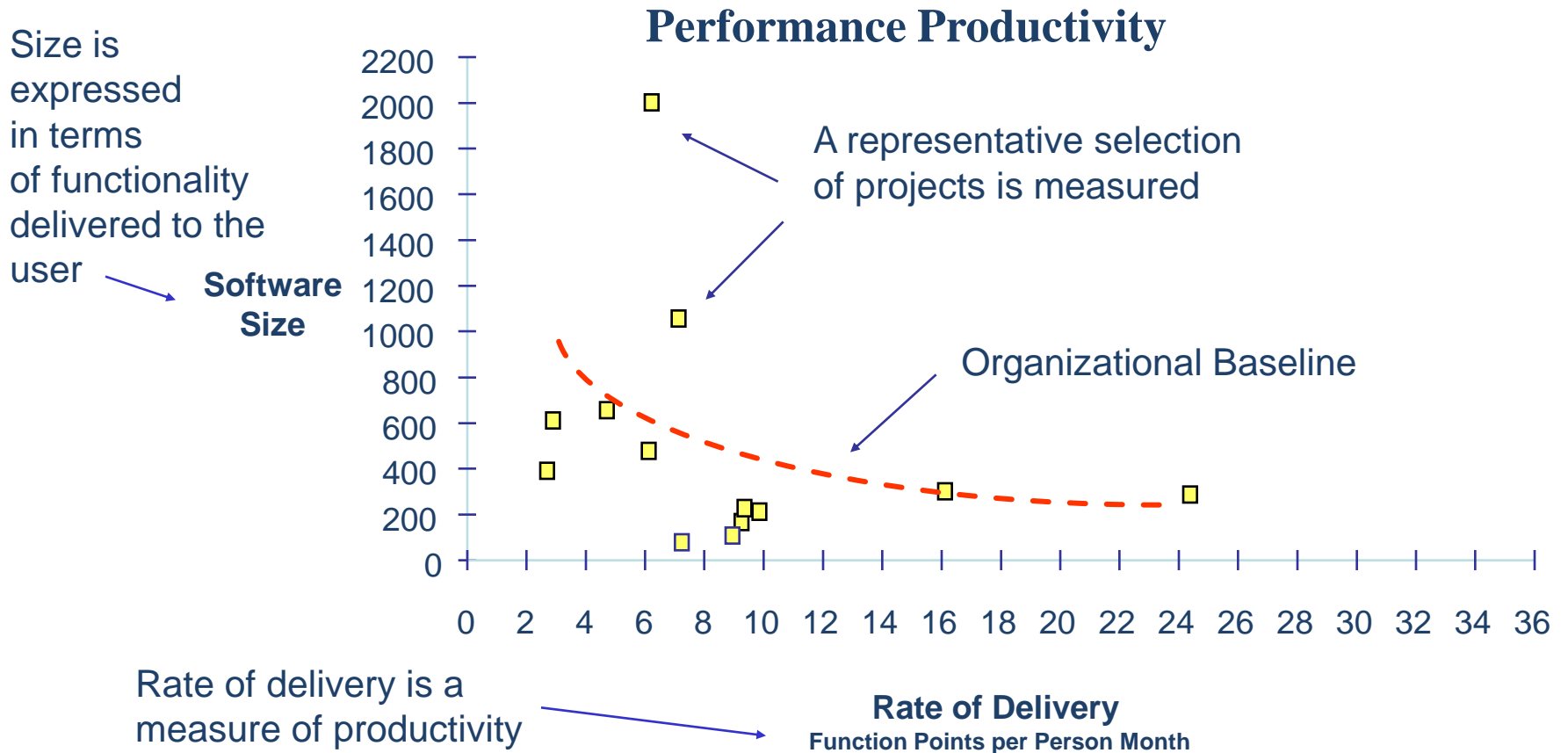
Waste Mitigation Improvements:

Productivity ~ +131%
 Time to Market ~ -49%
 Defect Ratio ~ -75%



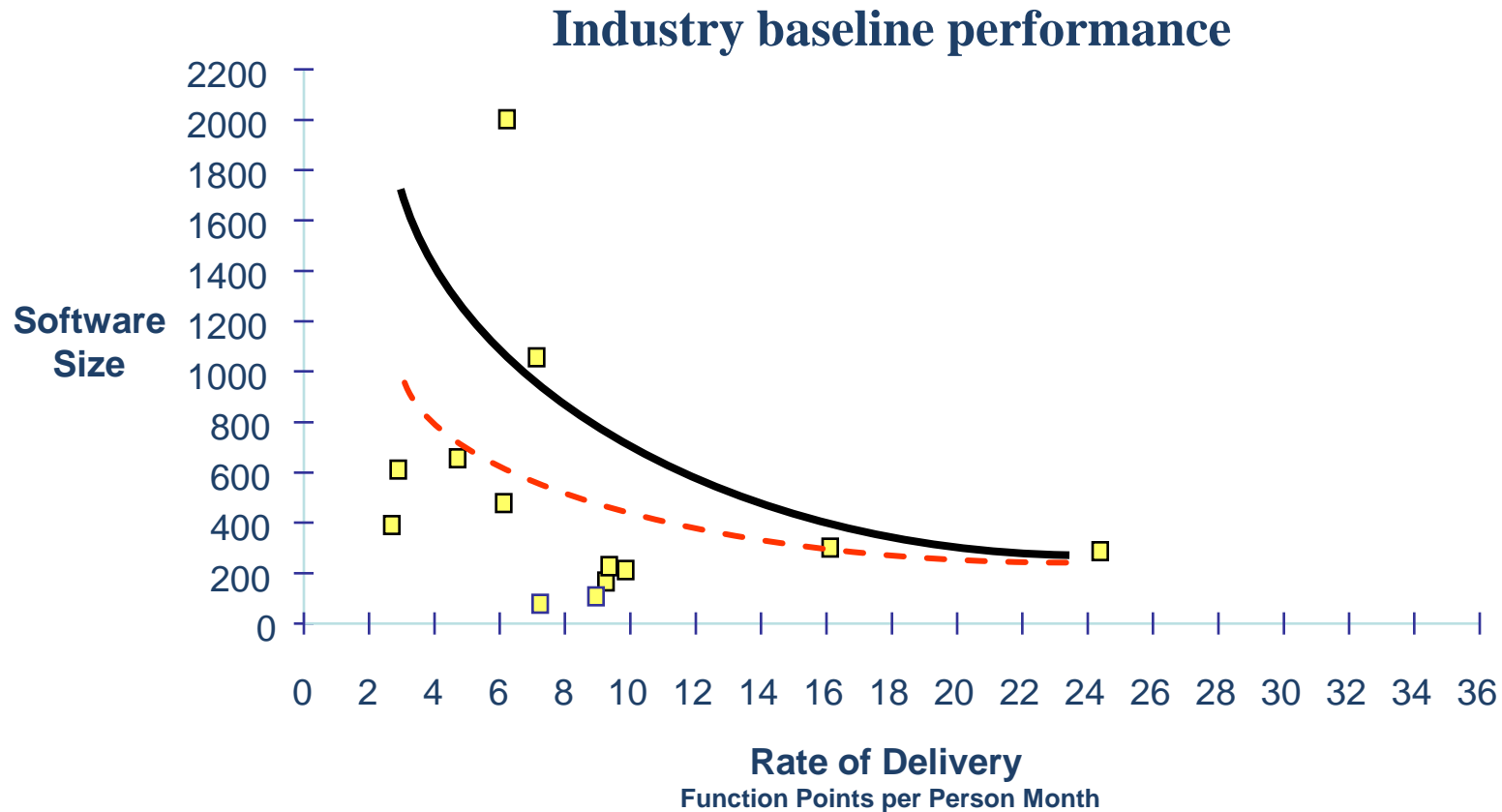
Productivity Improvement	
Average Project Size	133
Average FP/SM	24.8
Average Time-To-Market (Months)	3.5
Average Cost/FP	\$467
Delivered Defects/FP	0.0075

Step 3: Establish A Baseline



Note: Differences could be easily explainable due to technologies used, experience of teams, etc. or not.

Step 4: Compare To Industry Benchmarks



This is done quickly using DCG's own data or more slowly using other sources

Step 5: Acting on Results

You have identified some “low hanging fruit” for waste reduction and process improvement. **What next?**

It is important to select the right best practice for each specific problem:

- Code Reviews and Inspections: Fagan Inspection Training, the right balance of formal & informal, code standard committee with the right champions
- Requirements Management: Change Control Board processes, traceability, Acceptance criteria for next step “customers”
- Defect Tracking Configuration Management – Automated builds, automated check in of code, integration of defect systems between development & different testing areas.

Expert help available in any or all areas!

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