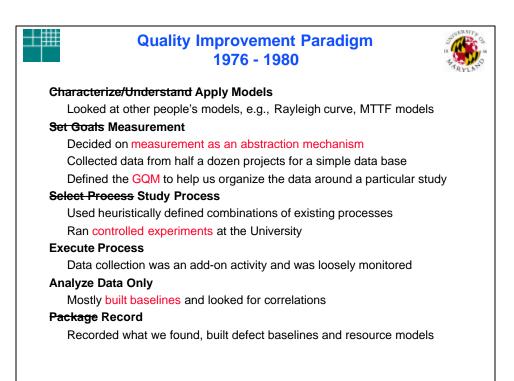
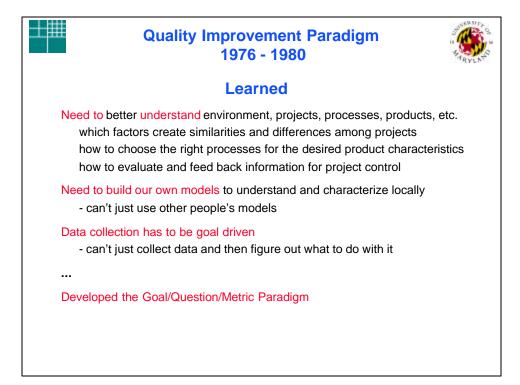
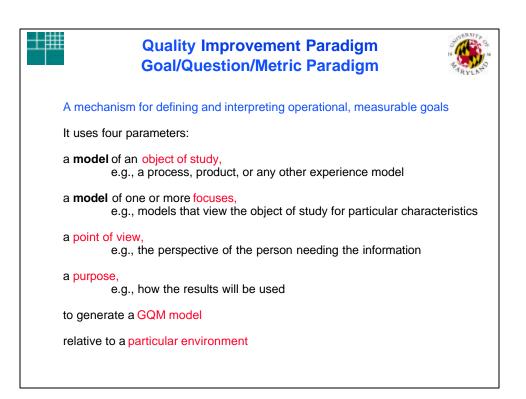
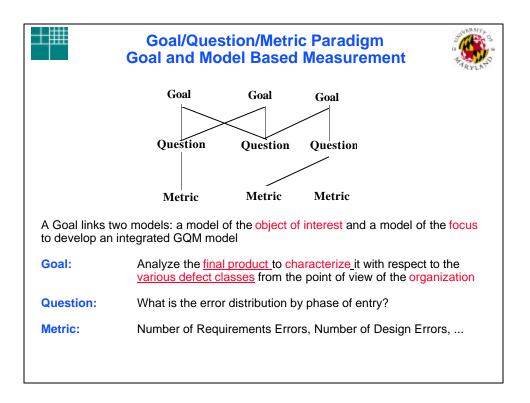


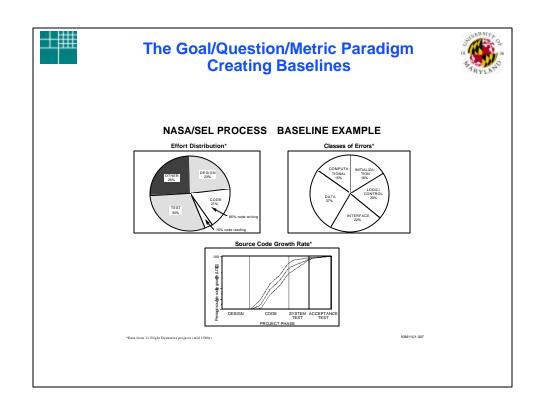
Ħ	Maturing the Improvement Paradigm Major Activity Evolution
Character	ze
metrics	> baselines> models
Set Goals	
data di	iven> goal driven> goal/model driven
Select Pro	cess
	c> defined> high impact> evolving ations technologies combinations processes
	rocess lata collection> less data> data embedded in process
Analyze	
correlat	ions, regressions> quantitative/qualitative analysis
Package	
	ng> lessons learned> focused tailored packages
	, resources , product> process x product es models characteristics relationships

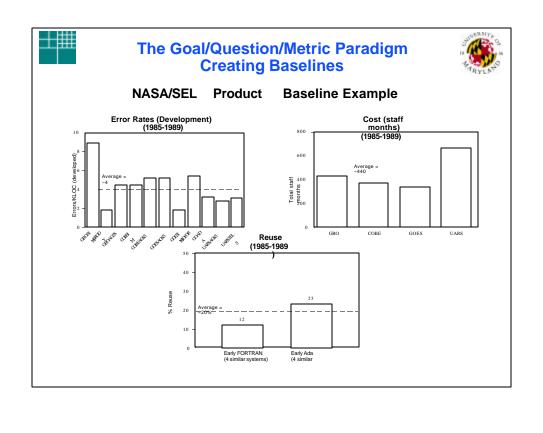














## Quality Improvement Paradigm 1981 - 1985



## Learned

Software development follows an experimental paradigm, i.e., Design of experiments is an important part of improvement Evaluation and feedback are necessary for learning

Need to experiment with technologies

Need to learn about relationships

- process, product, and quality models need to be better defined

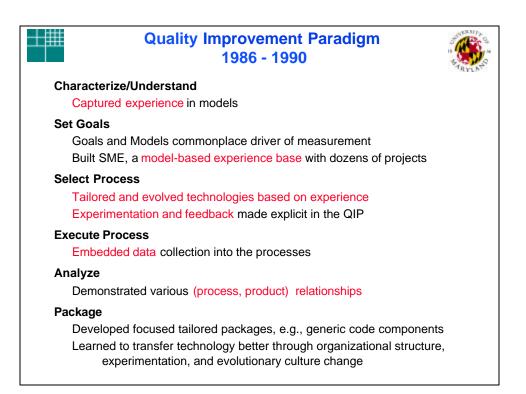
Reusing experience of all kinds is essential for improvement

Can drown in too much data, especially if you don't have goals and models

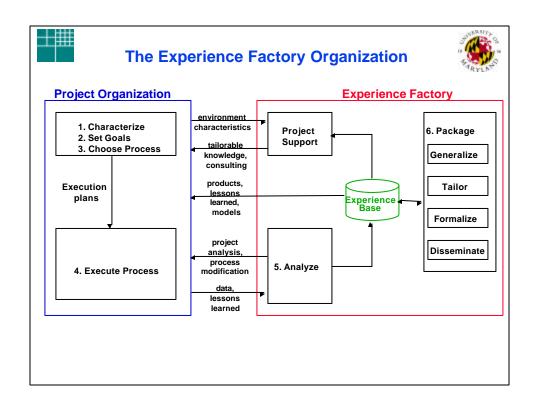
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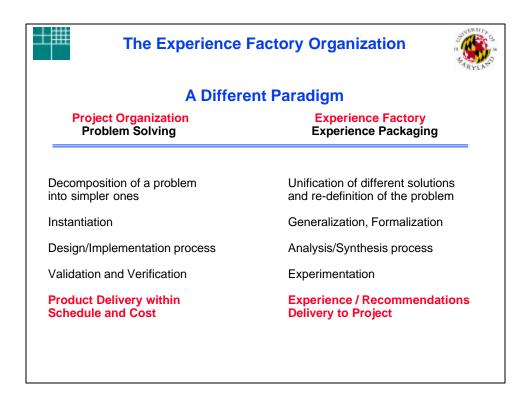
Developed the QIP as:

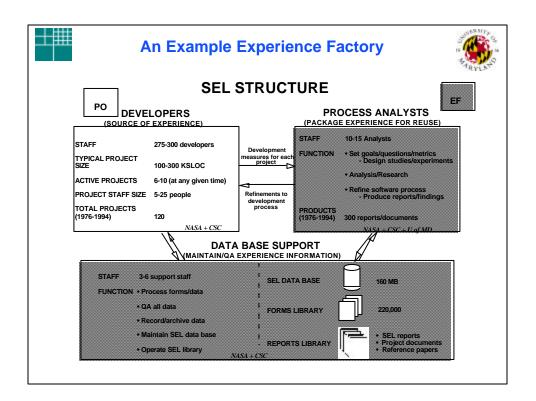
Characterize, Set goals, Choose process, Execute, Analyze, and Record

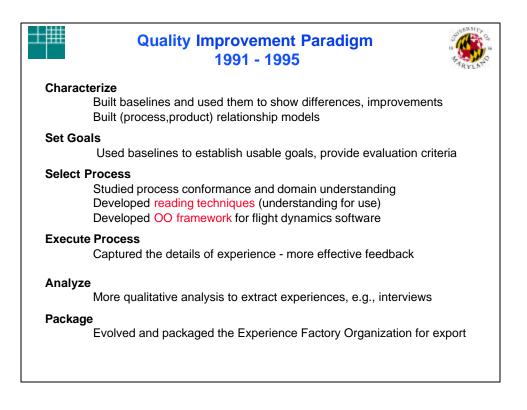




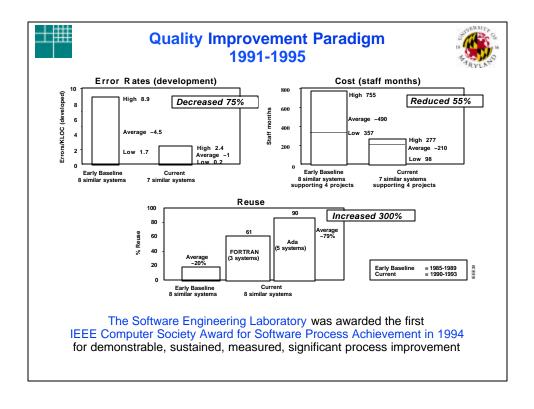


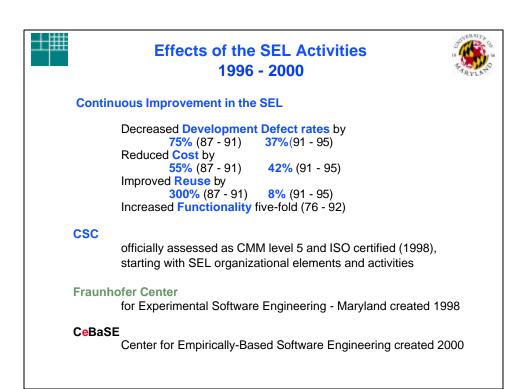


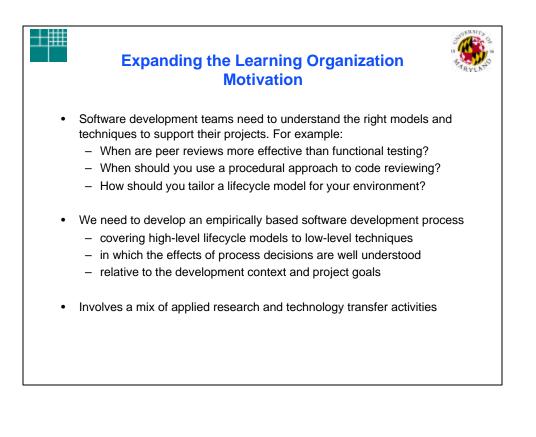


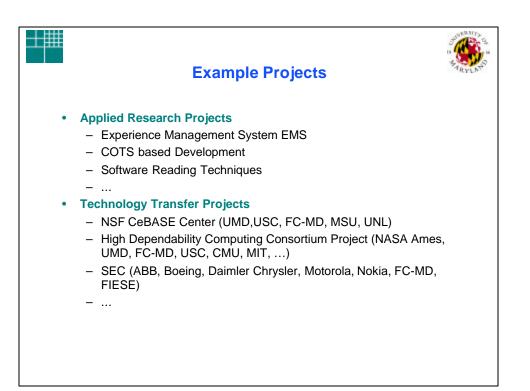




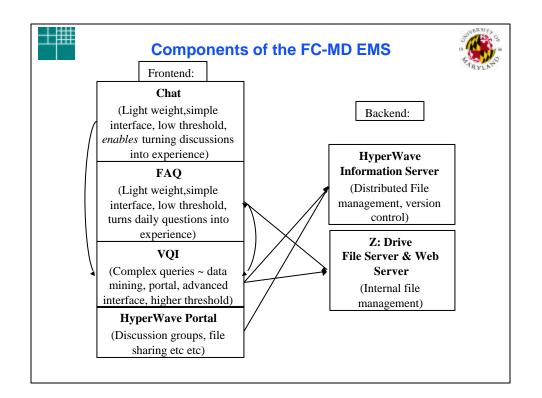


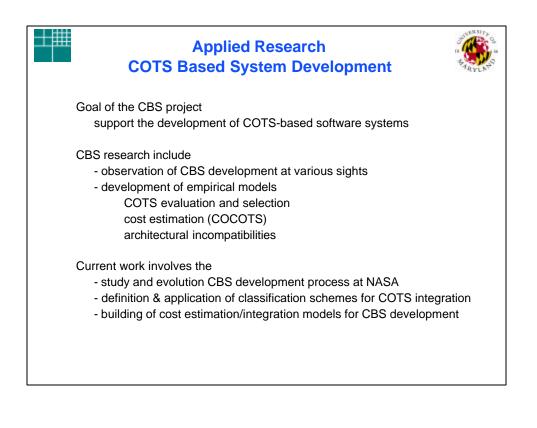


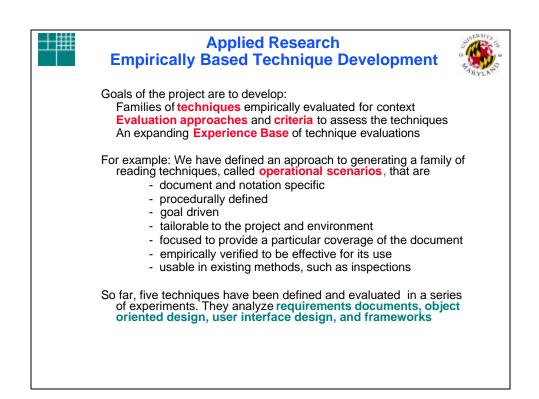


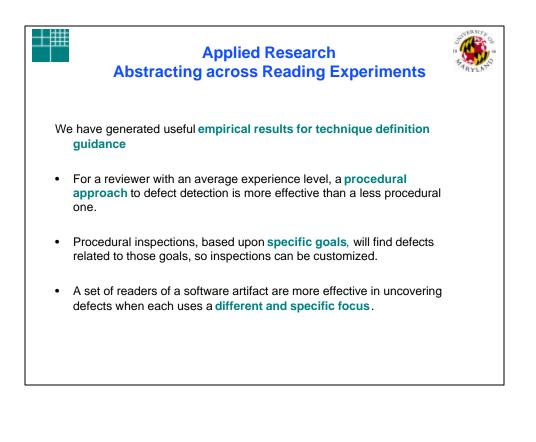


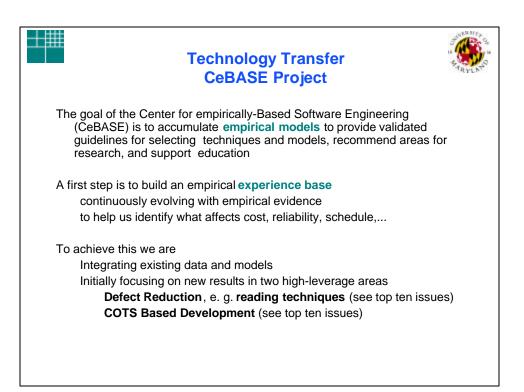


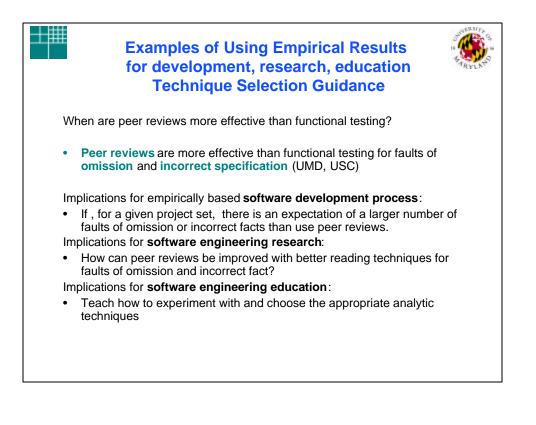














- The operational user organizations can adapt to the pace of evolution,
- The evolution dimensions are compatible with legacy system replacement,
- appropriate management, financial, and incentive structures are in place. (USC)

