



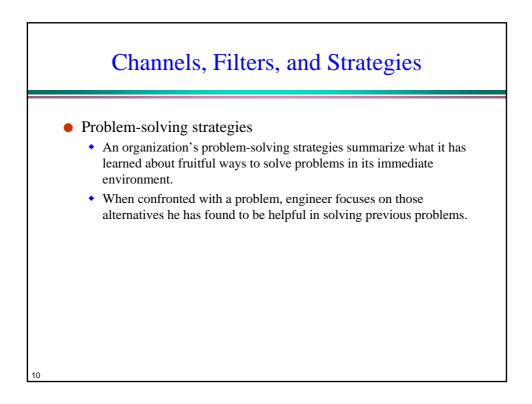
The Evolution of Component and Architectural Knowledge

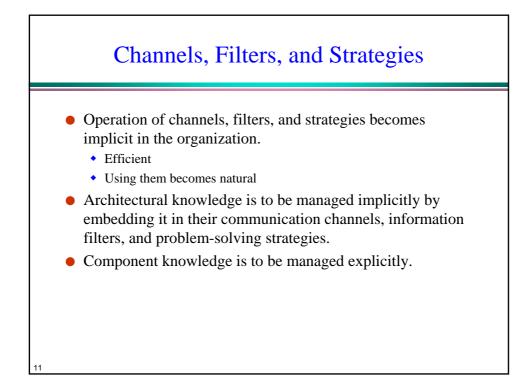
- Two concepts are important to understand the ways in which component and architectural knowledge are managed inside an organization:
 - Dominant design
 - Organizations build knowledge and capability around the recurrent tasks that they perform

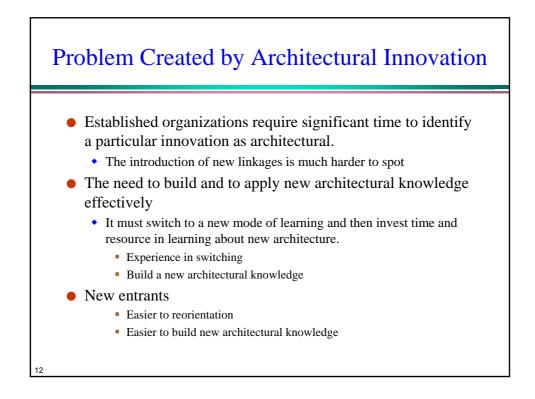
The Evolution of Component and Architectural Knowledge

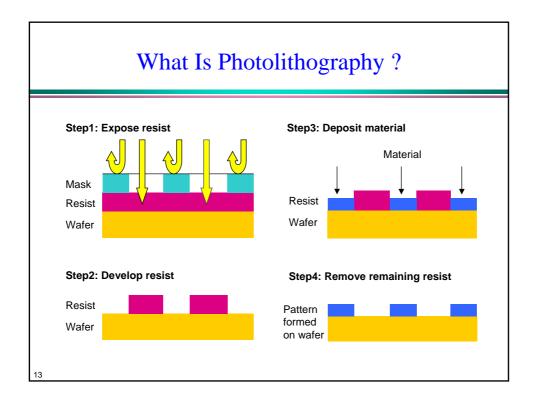
- New technology evolves
 - Confusion, experimentation
 - Develop both knowledge about alternative configurations
 - Emergence of the dominant
 - Cease to invest in alternative configuration
 - New component knowledge is valuable.
 - Architectural knowledge is stable.

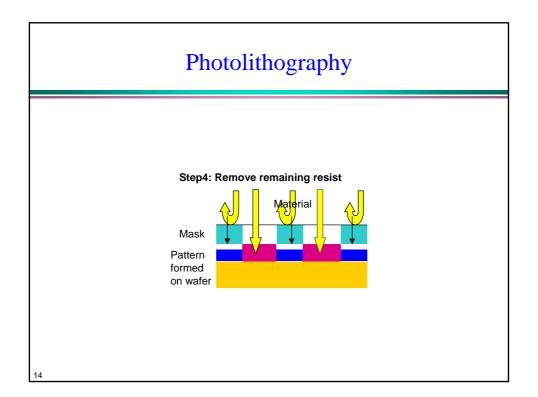




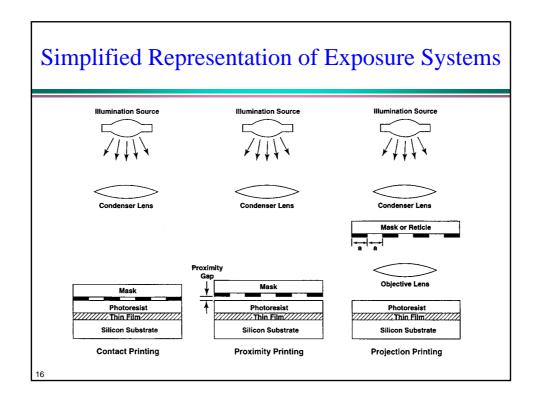


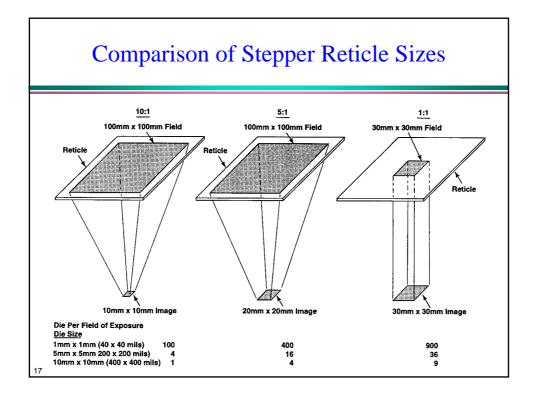






Equipment	Critical Relationship
Contact	Bring the mask and wafer into direct contact damage the mask or contaminate the wafer
Proximity	Gap-setting mechanism and other components
Scanning	Interactions between lens and other components
First-generation stepper	Interactions between stage and alignment system
Second-generation stepper	Relationship between lens and mechanical system





Alignment equipment							
Firm	Contact	Proximity	Scanners	Step 1	Step 2		
Cobilt	44		< 1				
Kasper	17	8		7			
Canon		67	21	9			
Perkin- Elmer			78	10	< 1		
GCA				55	12		
Nikon					70		

