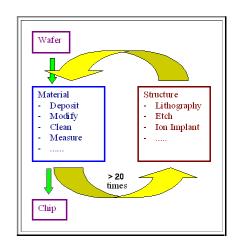
5.2.3 Summary to: Chips on Wafers

- Typical wafer size for new factories (2007): 300 mm diameter, 775 μm thickness, flatness in lower μm region
 - Chip size a few cm², much smaller if possible
 - Yield Y = most important parameter in chip production = % of chips on a wafer that function (= can be sold).
 - Y = 29 % is a good value for starting production
- Chip making = running about **20** times (roughly!!) through "materials" "structuring" loop.
 - About 400 600 individual processing steps (= in / out of special "machine") before chip is finished on wafer
 - More than 30 processing steps for packaging (after separation of chips by cutting)
 - Simple estimate: 99.9% perfection for each processing step means Y < 70 %.



Questionaire

Multiple Choice Questions to 5.2