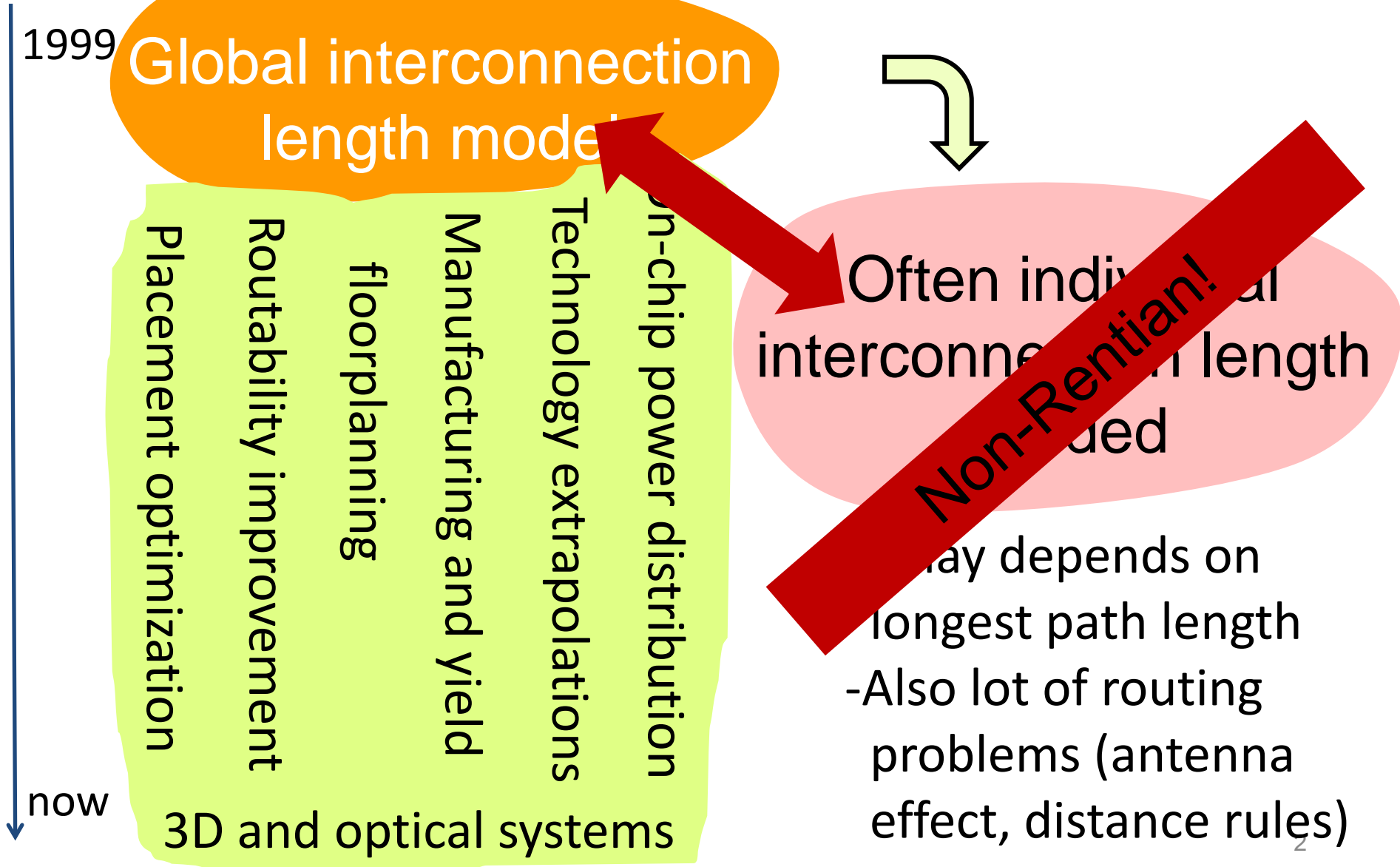


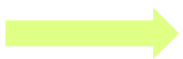
SLIP 2010 position statement: Forget about individualism, it's all about socialism

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Q1: How did SLIP's scope change?



Q2: missed opportunities for SLIP

- Tremendous drive to ESL design in EDA
 - from small number of connected blocks
 - to large number of parallel processing nodes fits power law (Rentian) analysis!
- Don't forget: Rent's rule is a fundamental law (of physics/nature/...?)
- Opportunities in NoC research for large multicore networks (already started few years)
- Bring the « S » back in SLIP!

Q3: Directions SLIP should shift to

- ESL
- ESL
- ESL
- Political statement: when using Rent's rule, embrace Obama's health reform plans...
- No more individual wire predictions, only global statistics

Q4: 3-5 papers I'd like to see by 2020

- Statistical properties of parallel algorithms optimized for improved NoC performance
- Fast architecture exploration based on the bandwidth (ESL) Rent exponent
- A quick safari through the interconnect-centric system-level design jungle
- Think globally, act locally: healthcare for everyone in the US

Conclusions

- Rent's rule is a fundamental law of the interconnection nature
- Statistical properties only hold for large n
- Lots of areas need global estimates anyway
- Interconnect further increases to be the dominating factor in designing complex systems
- Need to move to higher abstraction levels (ESL and up)