

Summary



- Data movement rather than computation is the key challenge
- Silicon photonics: emerging commercial ecosystem
- Bandwidth Density + Energy Efficiency
 - Si photonics can get to 1 Tb/s per pin at 1 pJ/bit **system wide**
- *Photonic switching* is key to realizing system benefits of optical interconnection **networks beyond “wire replacement”**
- Optical networks are fundamentally different: require *Holistic co-design* of software-architecture-interconnect .