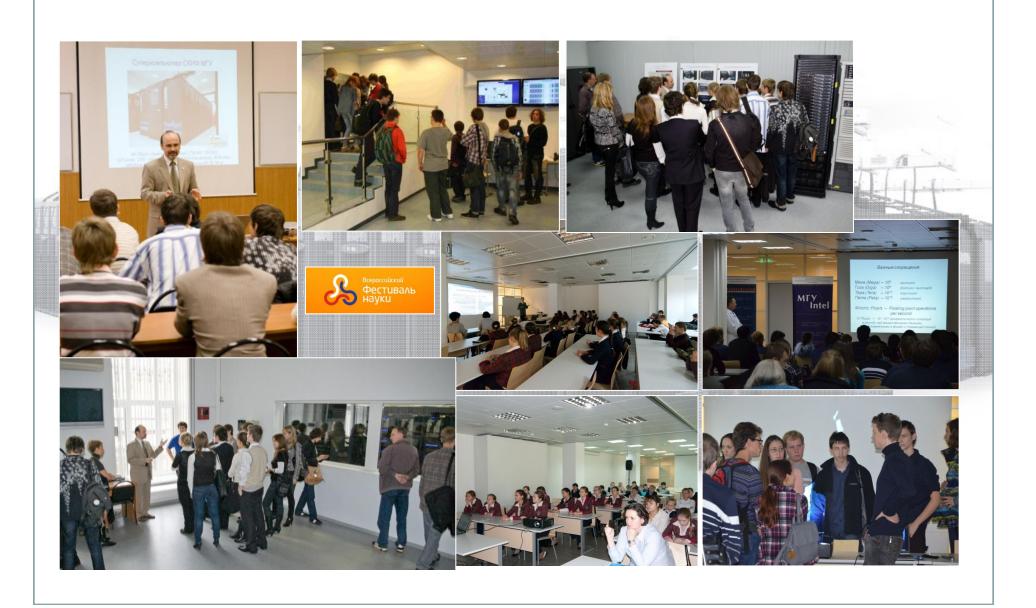






Schools at MSU Supercomputing Center (550+ visitors in 2013)



Summer Supercomputing Academy

at Moscow State University June,23 – July,4, 2014

- Plenary lectures by prominent scientists, academicians, CEO/CTO's from Russia and abroad,
- 6 parallel educational tracks,
 - + Educational track for school teachers (informatics)
- Trainings on a variety of topics,
- Attendees: from students up to professors.



Parallel Computing and Primary School? Easily!

Can you do it faster?

How to work in a team?



Courtesy of M.A.Plaksin, Perm, Russia

Parallel Computing and Primary School? Easily!

Can you do it faster?





Parallel/Serial Amdahl's law Synchronization Scheduling Load imbala 600 Paralle con Critical section

Noverheads

Communications

Waiting rasource

Scalability

Locality

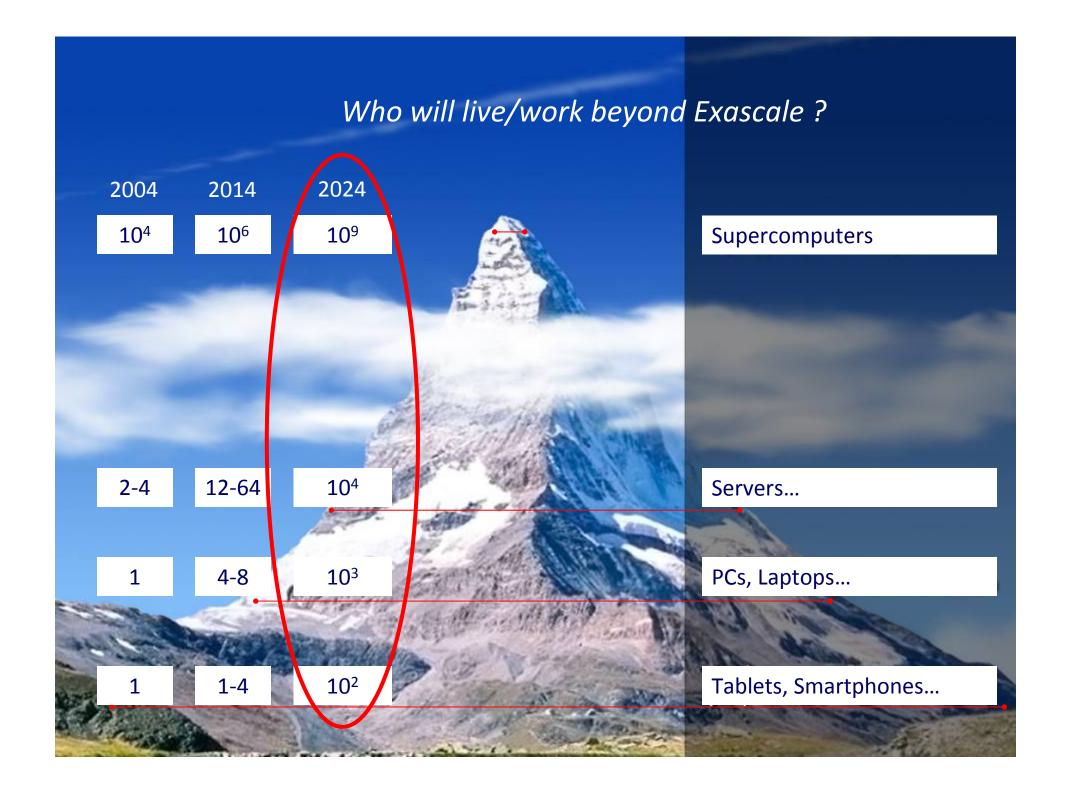
Large problems

How to work in a team?





Courtesy of M.A.Plaksin, Perm, Russia



Who will live/work beyond Exascale? 2014 2004 2024 **10**⁶ **10**⁹ 104 Supercomputers 12-64 **10**⁴ 2-4 Servers... **10**³ 4-8 PCs, Laptops... 1 10² Tablets, Smartphones... 1-4