Meet the Crowd:

The Political Economies and Cultural Meaning of Digital Labor





Intro

• Name: Rajesh Patel

• Company: Microsoft (Bing)

- Working on platforms and services to enable Machine Learning, big data scenarios easy
- Doing research and development in Crowdsourcing/ Cloudsourcing
 - Delivered Enterprise Crowdsourcing Platform, business models and processes
- •Passion:
 - Help enable engineers do their job 10x efficient through building platforms and services
 - Human task creation, compilation, execution at scale, real-time HCOMP
 - Dream: "Anything that can be outsourced can be Cloudsourced!"



Our Business need

Repeated, higher quality, and high volume human generated data in timely manner:

- •Some examples:
- Machine learning measurement and training needs
- Classification/Categorization
- Data verification and correction
- Speech collection
- Survey
- Natural language data collection
- Documentation A/B testing

Need for higher experiment agility, cost effective options



Learning – few nuggets

Workers

- Trust
- Association
- Fairness
- Worthless wondering

Requester

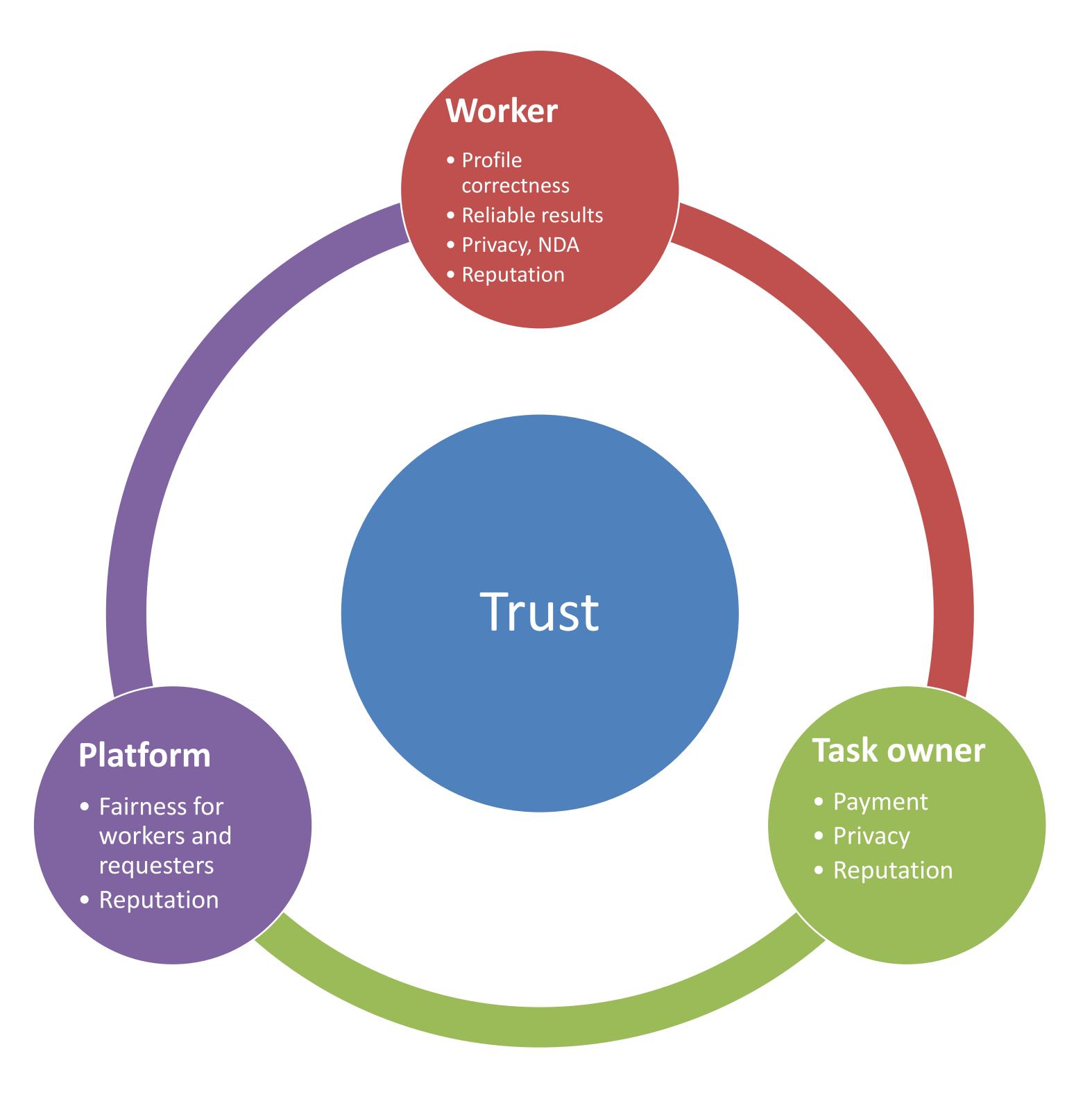
- Trust
- Task design is an ART
- Task owners want to focus on use of labels and have data collection as someone else's problem

Platform

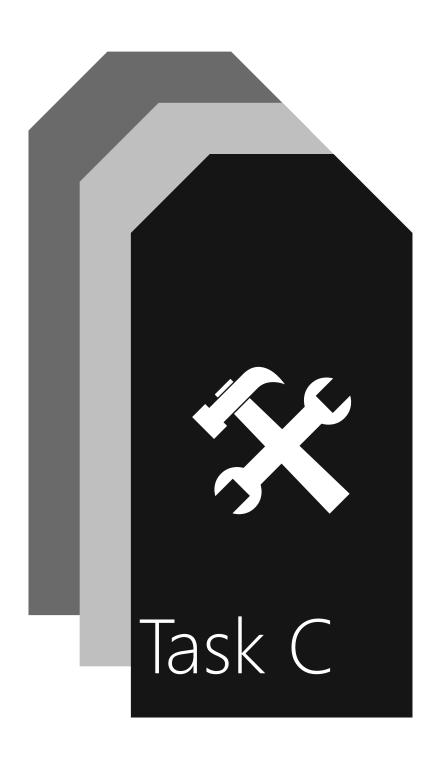
- Worker quality, Trust
- Market place dynamics
- Performance and scalability of platform
- Security and privacy of workers
- Payment fairness



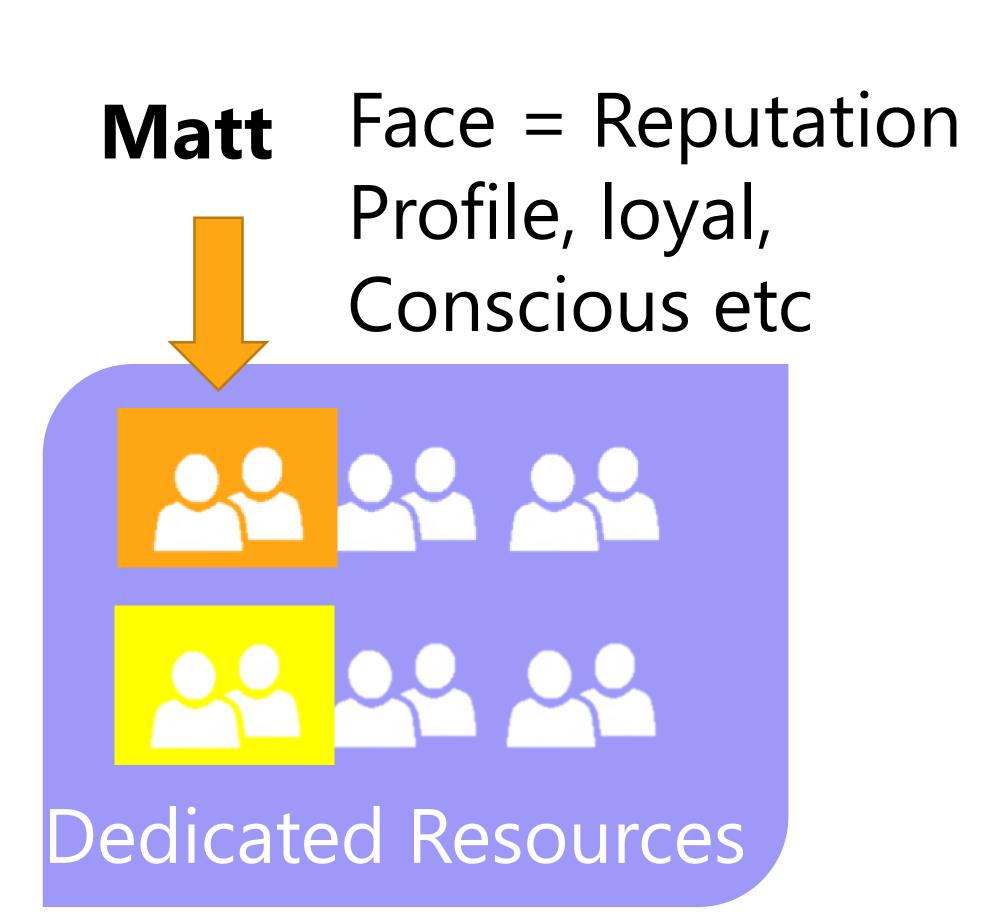
Circle of Trust

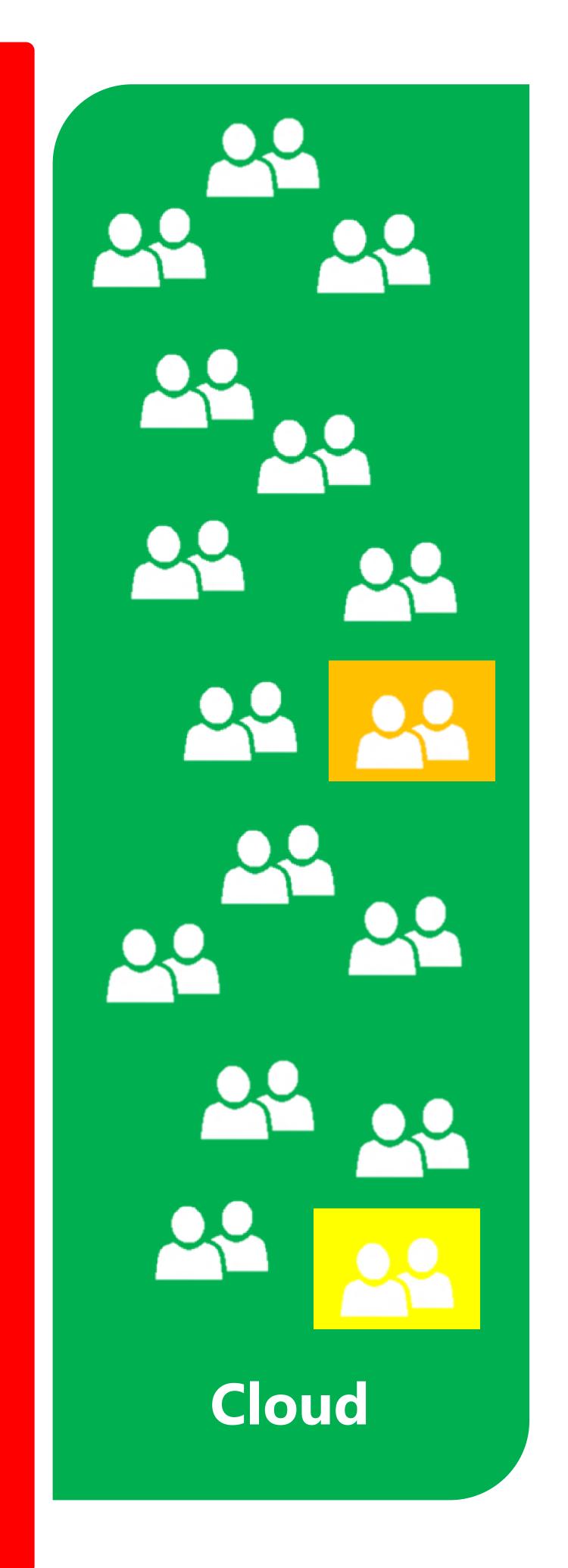








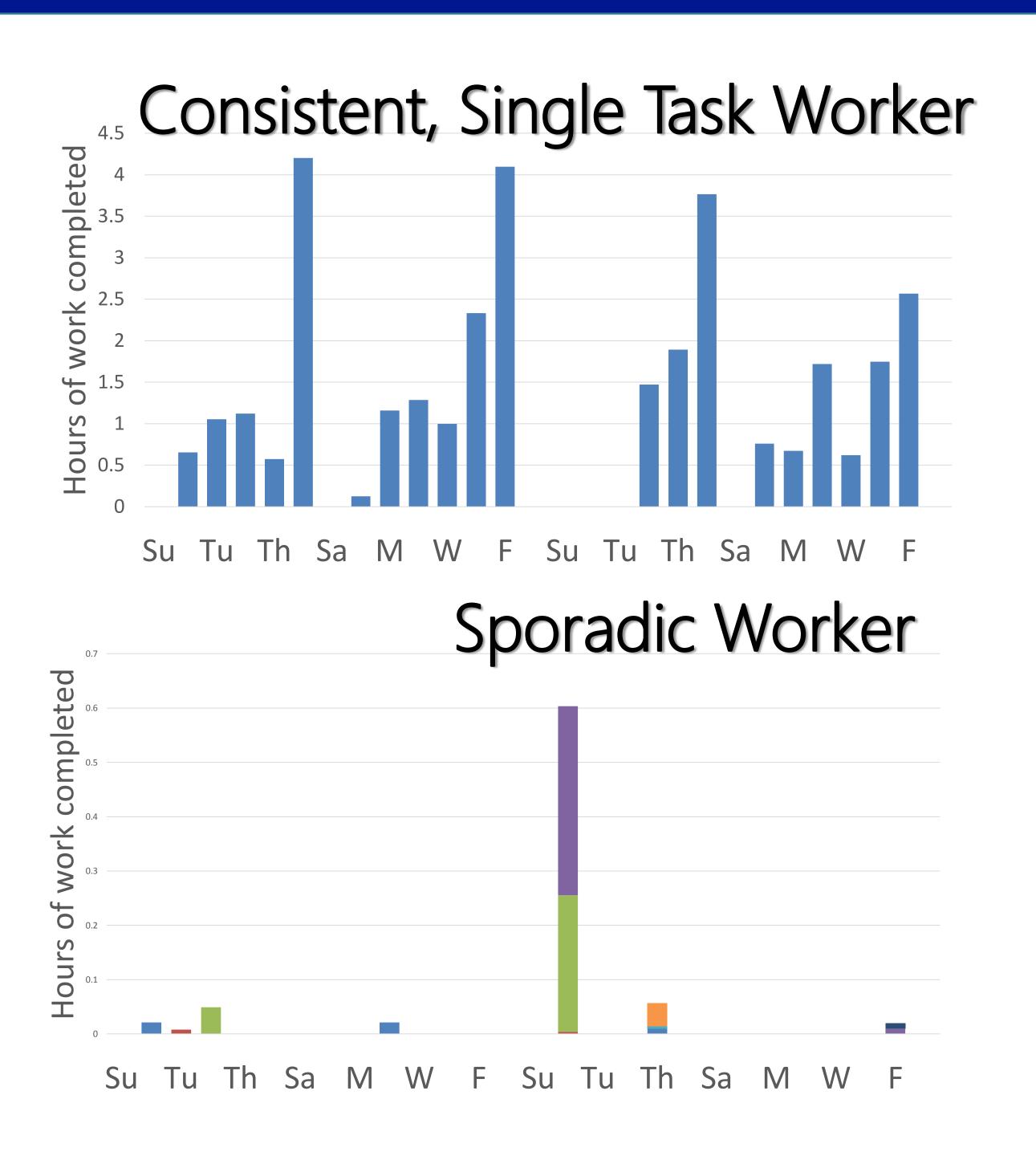


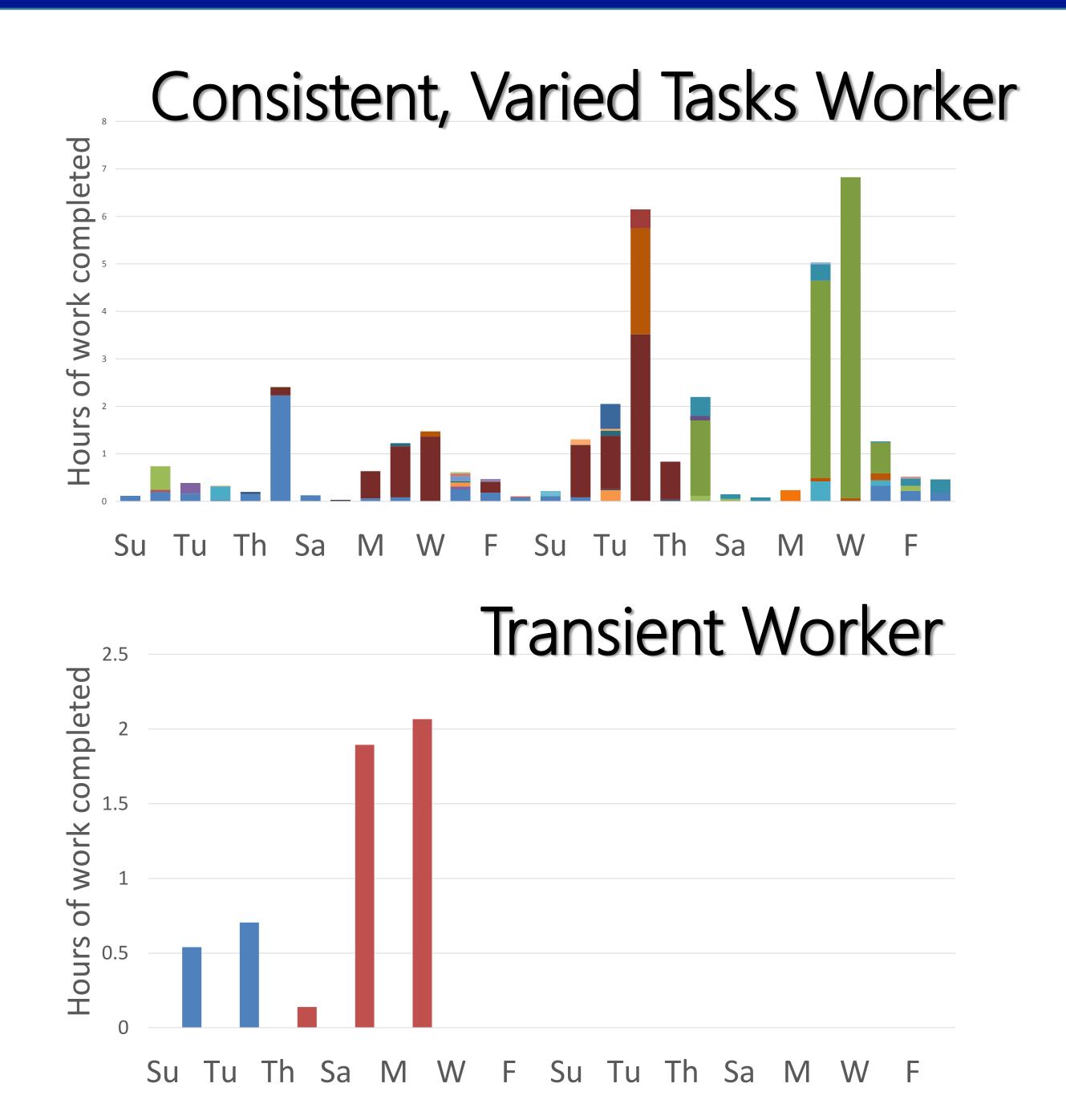


Worthless wandering



Worker Variety

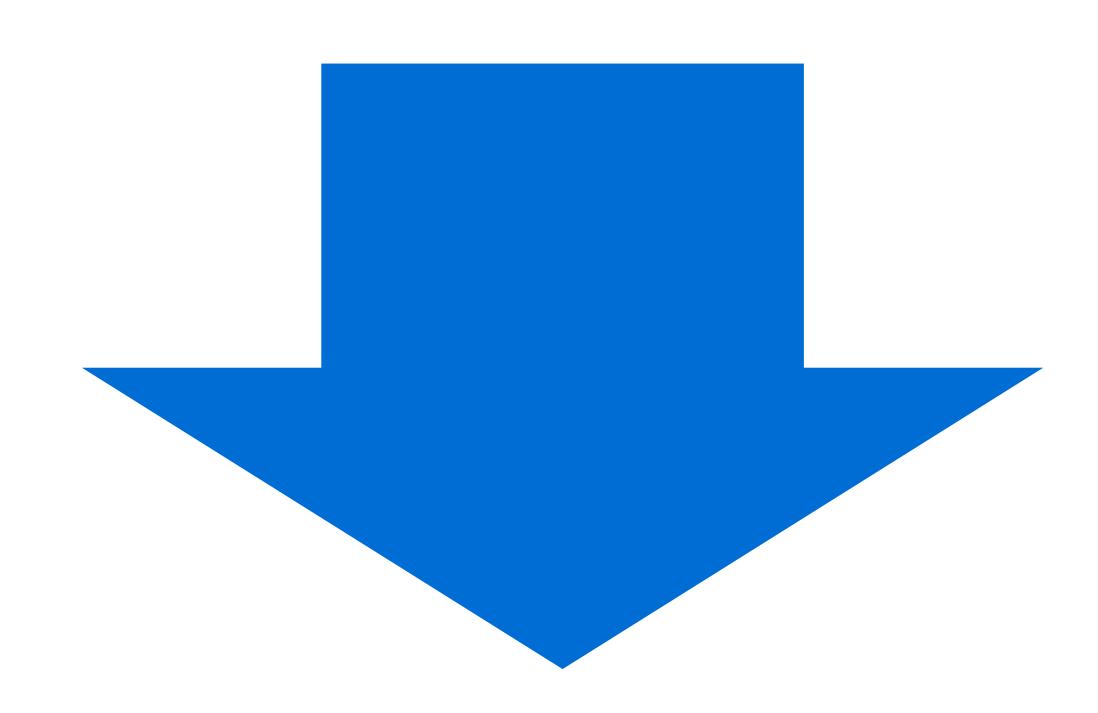




Total judgment time per day for sample judges. Different colors represent judgments for different Tasks.



Marketplace dynamics



Tasks

- Task starvation
- Price
- Enterprise marketplace is different

Workers

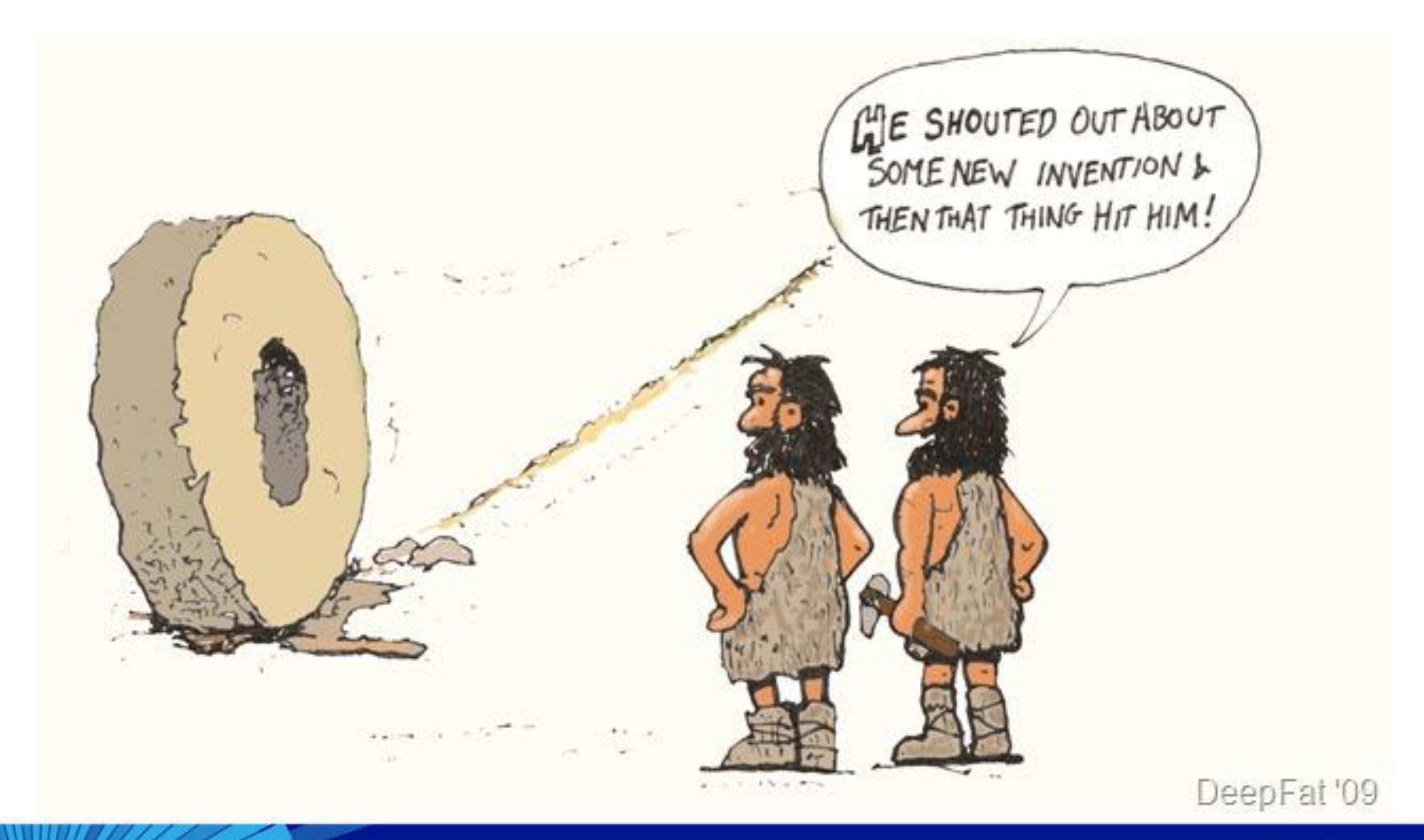
- Active workers matters
- Less earning potential per worker
- Quality



Future

- There are 7 Billion + people in the world
 - We have tremendous opportunity to tap into these massively growing well connected distributed resources in the cloud (aka Cloud resources)
- Opportunity to match people skill with task at massive scale
 - Help people earn without employment
- World with ability to assign and complete the work from comfort of your home!





Thoughts...

- Fill the gap between Cloudwork and physical world
- Go Beyond Microtasks!
- Anything that can be outsourced can be Cloudsourced!
- Join to contribute!
 - Email me if you have any questions: rajeshpa@microsoft.com
 - Thank you!

