200Pb per day by 2020
Internet in India by 2020

- 730 Mn internet users
- 75% of new internet user growth to come from rural areas
- 75% of new internet user to consume content in local language
- Mobile video content to grow at an 83% CAGR in next 5 years
- Number of online shoppers to become 175 Mn, a 3.5X growth over 2015
- 70% of e-commerce transactions via mobile phones
- 50% of travel transactions to be online

NASSCOM Report: The future of internet in India
India will be home to over 10,500 startups by 2020 (5k in 2017) (NASSCOM)

Investment CAGR: 22%

Investment CAGR: 153%
India will be a $4.5B data center market by 2018 and will reach $7B by 2020 (Cushman & Wakefield)

Digital data in India was around **40K PB** in 2010 and projected to **2.3M PB** by 2020. **2X** worldwide growth. (Cushman & Wakefield)

Hyper Converged Infra

Micro Services

High Performance Computing

Software Defined Everything (SDE)
Figure 1. Average CPU utilization of more than 5,000 servers during a six-month period. Servers are rarely completely idle and seldom operate near their maximum utilization, instead operating most of the time at between 10 and 50 percent of their maximum utilization levels.

Figure 2. Server power usage and energy efficiency at varying utilization levels, from idle to peak performance. Even an energy-efficient server still consumes about half its full power when doing virtually no work.
INSIGHT BASED CONTROL SYSTEMS
REDUCTION IN GOOGLE’S DATA CENTER COOLING COSTS via DeepMind Artificial Intelligence

40%
Key Takeaway’s

• Massive Changes are already on the way

• IT and Facilities are to be Partners

• Leverage Instrumentation at Source

• AI & ML are not only for IT, increase investments here
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Prediction 2: By 2021, 50% of Enterprise Infrastructure Will Employ Some Form of Cognitive and Artificial Intelligence to Improve Enterprise Productivity, Manage Risks, and Drive Overall Cost Reduction

Prediction 3: By 2021, in Value Terms, Over 25% of Infrastructure Services Will Have Some Autonomous Self-Managing Capabilities, Expediting Business Outcomes and Mitigating the Risk of Human Error Resulting from Manual Intervention

Prediction 9: By 2021, Installed and In-Use Container Instances Will Amount to More Than 3.5 Billion, with Over 20% of Them Running in Distributed Locations Serving Edge and IoT Workloads