

# Cloud Computing: An Enabler in Modern Labor Market

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# Agenda

- ▶ Introduction
- ▶ Cloud computing
- ▶ Cloud computing and job market
- ▶ Opportunities and challenges
- ▶ Conclusion and future work

# Introduction

- ▶ *Cloud computing is a model for enabling convenient, on-demand network access to a shared pool of configurable computing resources that can be rapidly provisioned and released with minimal management effort or service providers interaction*

*National institutes of standard and technology (NIST)*

# Cloud computing service and Deployment Models

- ▶ Service models are;
  - SaaS
  - PaaS
  - IaaS
- ▶ Deployment models are;
  - Private cloud
  - Public cloud
  - Hybrid cloud
  - Community cloud

# Cloud computing and job market

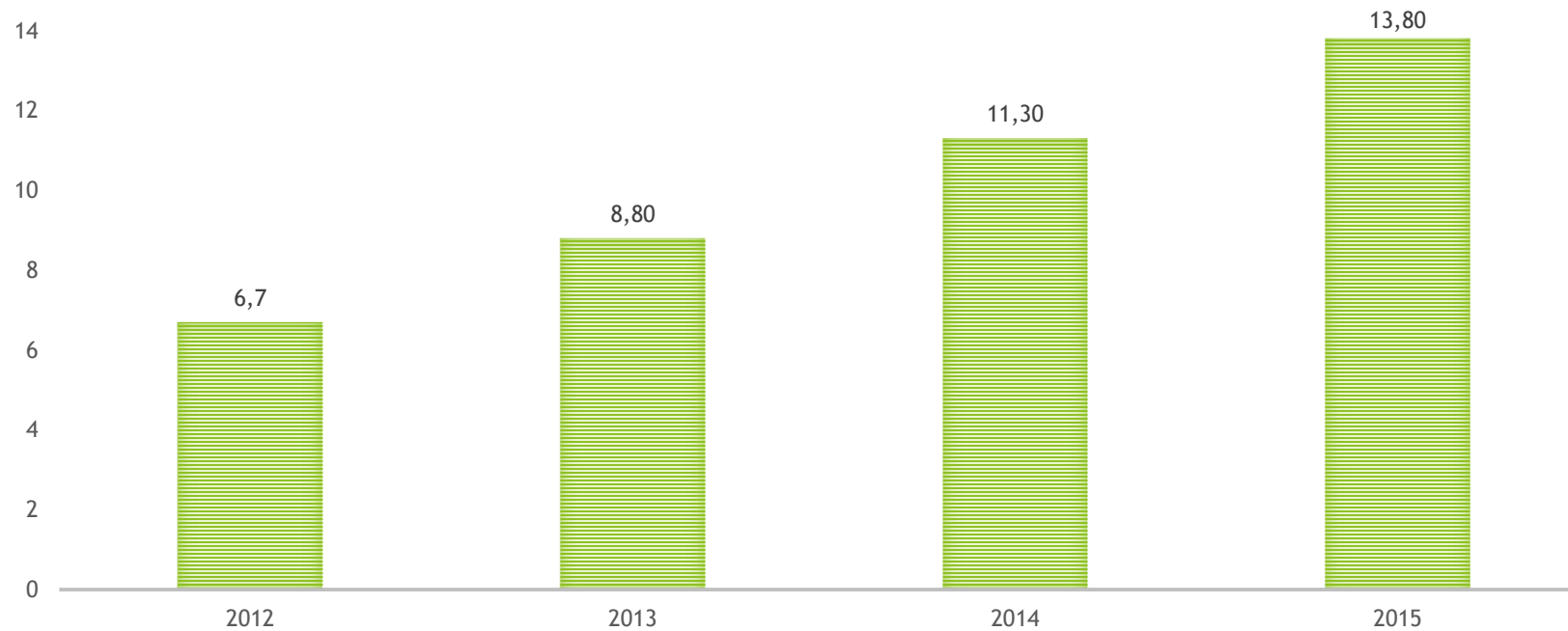
- ▶ Utilization of cloud services in European market
- ▶ In the UK from 2010 through 2014, the rate of growth in cloud-related jobs in the smartphone services sector is set to be 349%, compared to 52% growth in aerospace.
- ▶ German, Italian and US equivalent growth rates will be 280% vs 33%, 268% vs 36% and 168% vs 57% respectively.

*London School of Economy and Science (LSE), 2012*

# Cloud computing and job market contd..

- ▶ Mostly depends on the strategy and circumstances for adoption
- ▶ Influenced by strategists, government and managers decisions

# Jobs created world-wide by cloud



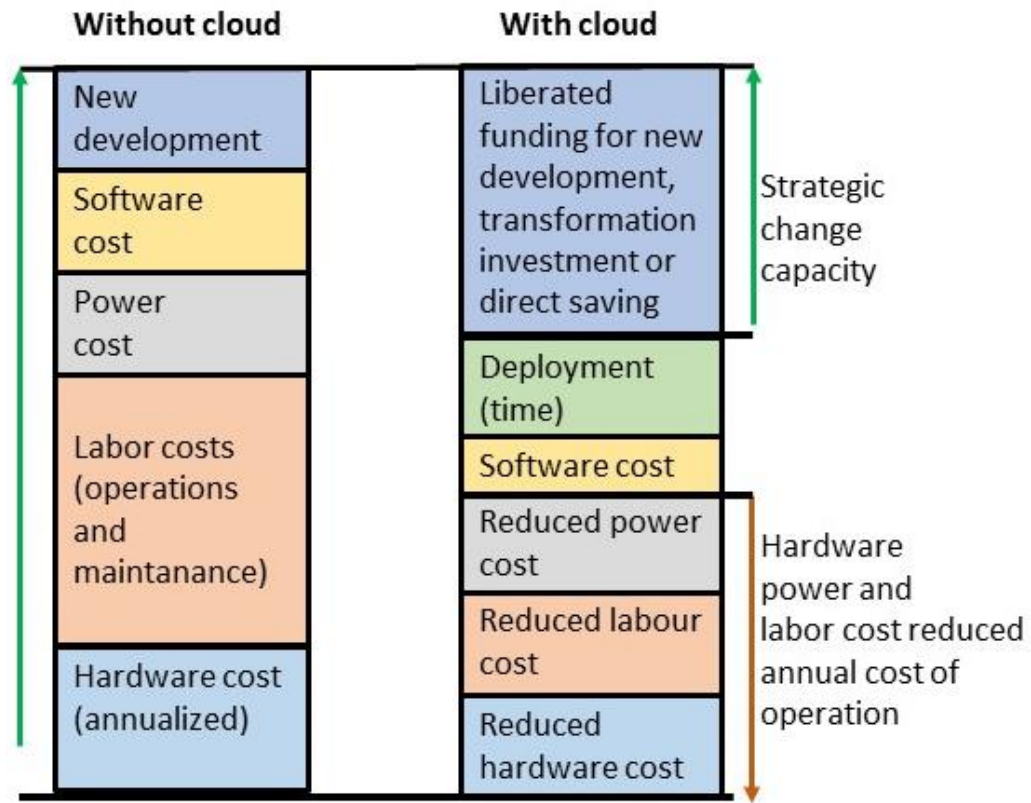
*Cloud computing impact on jobs: Total cumulative jobs generated by cloud computing worldwide at year - end, 2012-2015.*

# Opportunities and challenges

- ▶ 2/3 of the I.T. Budget is spent on legacy devices
- ▶ Switching to cloud solve this issue
- ▶ Best way to outsource activities which are not in core competencies
- ▶ Help in reducing cost of maintaining in house IT resources



# IBM cloud business model



# Disadvantages of cloud computing

- ▶ Trust
- ▶ Security
- ▶ Handling of data
- ▶ Governance and legal issues

# Challenges

- ▶ Main focus of research always remained at;  
security  
governance  
and trust of cloud
- ▶ Very little research is done understanding the economical impact of cloud computing

# Future work and conclusion

- ▶ Further study of economical impact of cloud computing
- ▶ Indepth analysis of EU job market
- ▶ Job opportunities created by cloud computing
- ▶ Role of cloud computing in SMEs

Thank you for your attention