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# Telecommunication in the 4<sup>th</sup> Industrial Revolution and the Skills Imperative

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Swiss Telecommunication Summit 2017 - *Homo digitalis – der Mensch in der digitalen Wirtschaft*

# The Pervasive Innovation Challenge

THE TELECOMMUNICATIONS INDUSTRY PROVIDES THE FUNDAMENTAL  
BUILDING BLOCKS OF THE DIGITAL ECONOMY



Transformation is dependent on talent, not technology

# World of Work: 5 Key Drivers

COMPLEX AND INTERCONNECTED FACTORS



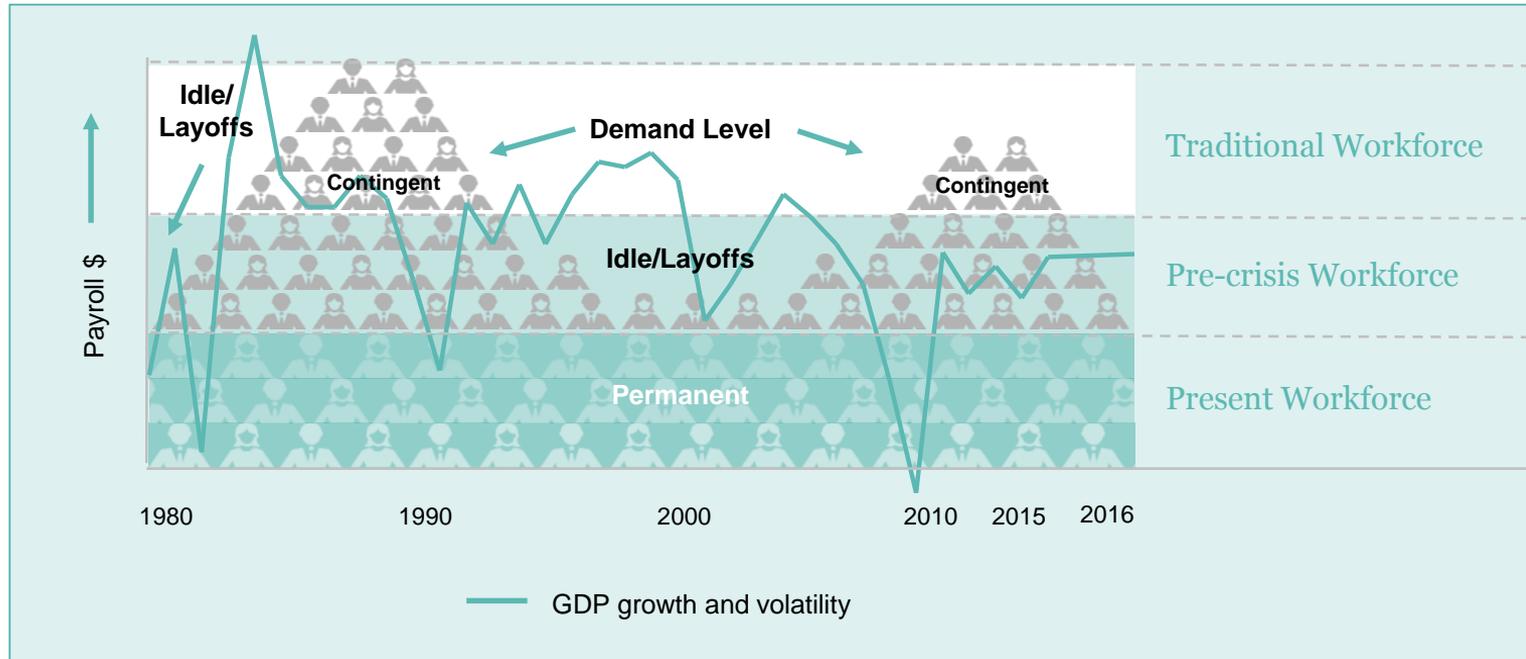
# Connectedness Empowers Economy

INFORMATION, NOT ASSETS OR MACHINERY, HAS BECOME BUSINESS' KEY COMMODITY



# Economy is Dominated by Volatility & Uncertainty

FLEXIBILITY IS A MUST, AND A 'JOB FOR LIFE' NO LONGER EXISTS



(Source: SIA World Employment Conference, 2011/Adecco 2015) / (Source: BLS, Eurostat)

# From Flexible Work, to Flexible Services Demand

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STANDARDISED SERVICE OFFERS ARE DEAD



Customers demand **personalisation**, **simplicity** and **proactivity**

# Up to 40% of Costs Addressable Through 4.0 Services

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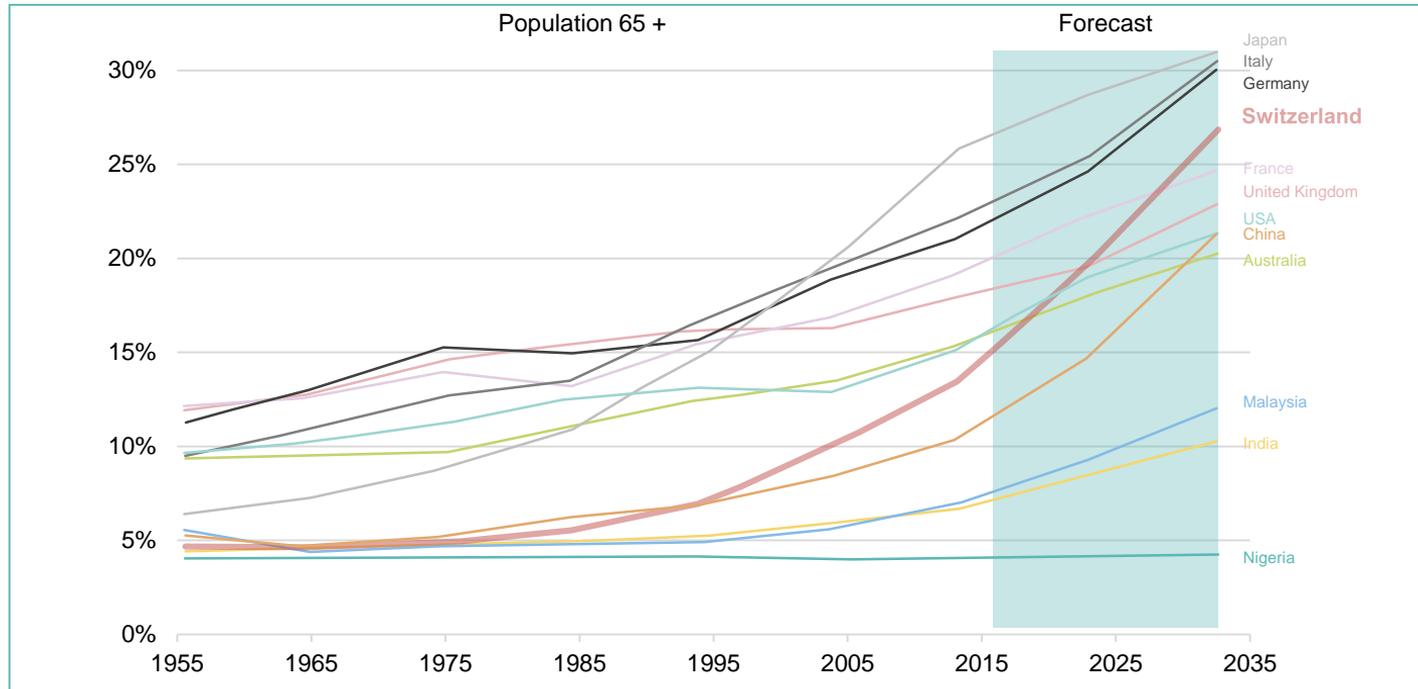
SAVVY USE OF BIG DATA CAN CUT COST AND DRIVE EFFICIENCIES



Highest cost cutting opportunities are in core customer facing processes

# Demography: By 2035 Younger Generations Predicted to Halve

DIVERSITY, MOBILITY AND LIFE-LONG LEARNING CAN FILL THE GAPS  
BUT ARE NOT SUFFICIENT



(Sources: Population Division of the Department of Economics and Social Affairs of the United Nations Secretariat, 2015 / Boston Consulting Group, The Global Workforce Crisis, \$10 Trillion at Risk, 2014)

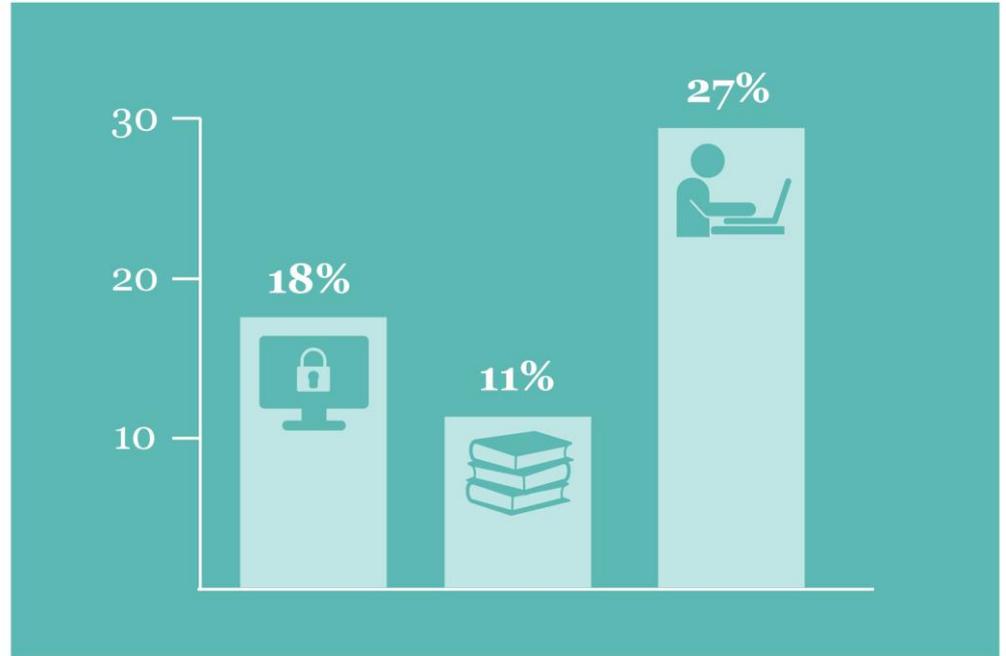
# Talent for Telco

JOBS MAY CHANGE AND OTHERS DISAPPEAR BUT NEW ONES WILL BE CREATED

## By 2024:

Tech jobs are estimated to **grow by 12% vs 6.5%** in all other sectors

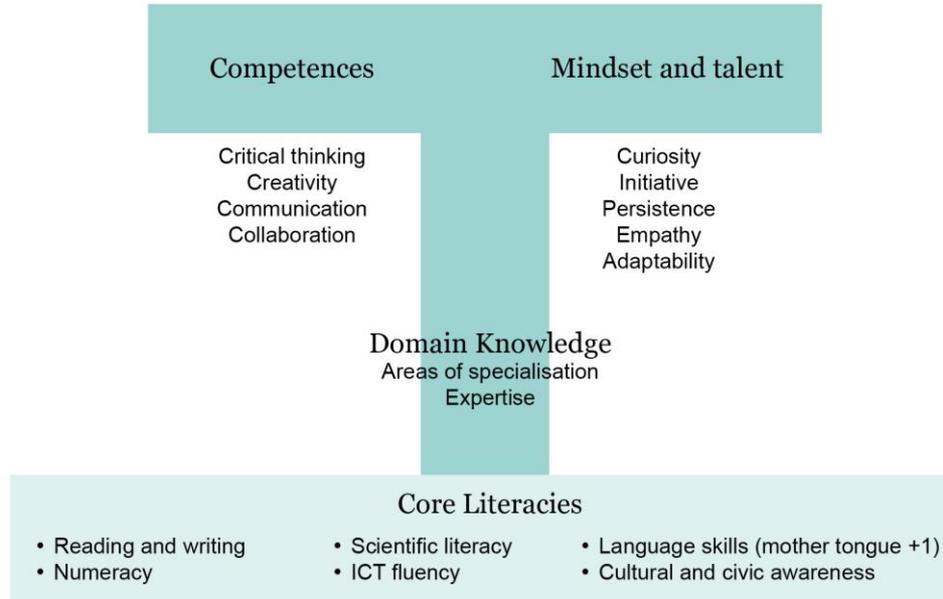
- IT security **18%**
- Database administration **11%**
- Web Development **27%**



(Sources: Modis USA, 2016)

# The Soft Skills Imperative

## WE NEED T-SHAPED SKILLS



(Sources: Hansen, M. T. and von Oetinger, B. Introducing T-shaped managers: Knowledge management's next generation. *Harvard Business Review*, March, 2001)

# Best Practices from Talent Champions

## GLOBAL TALENT COMPETITIVENESS INDEX 2017



### 'TALENT CHAMPIONS' COUNTRIES

- Advanced education
- Strong connectedness
- Active employment policies
- Technological competence

### TOP 20 RANKED COUNTRIES

- |                       |                          |
|-----------------------|--------------------------|
| 1. <b>Switzerland</b> | 11. Netherlands          |
| 2. Singapore          | 12. Ireland              |
| 3. United Kingdom     | 13. Canada               |
| 4. United States      | 14. New Zealand          |
| 5. Sweden             | 15. Iceland              |
| 6. Australia          | 16. Belgium              |
| 7. Luxemburg          | 17. Germany              |
| 8. Denmark            | 18. Austria              |
| 9. Finland            | 19. United Arab Emirates |
| 10. Norway            | 20. Estonia              |

# Public-Private Partnerships to Develop Skills and Boost Prosperity

## RECOMMENDATIONS



### For Regulators

- Connectedness
- Invest in advanced education and digital skills
- Active employment policies

### For Employers

- Invest in technology
- Foster agile and collaborative organizations
- Offer work-based training opportunities to young people



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Thank you

For any questions, ideas or thoughts

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