



Why Skills AI is the key to helping workers and organizations grow their talent



Eightfold AI unlocks individual potential

Enterprise HR Systems

HRIS LMS ATS VMS

Public Sources

Career Job boards
pages
Census Data
Resume
databases
Company data

Global Data Sets

1 billion+ 1 million+ profiles skills

1 million+ titles





The Right Job Requirements

Skills and Potential required to deliver business results



The Right Skills

- Fit to role
- Likely to Succeed
- Learnability
- Potential



Telecom Industry Skills Insights



Such trends are putting more pressure on Telcos to transform

From...



Discrete Network Elements

- Expensive and hard-to-manage
- Inability to scale and lack of automation



BAU Operating Model

- Longer time to Market
- Continuous reprioritization and rework



Limited Data Exploitation

- Siloed data systems
- Low business intelligence and analytics maturity



Closed Management Infrastructure

- Legacy systems tightly coupled to vendor technologies
- Limited flexibility and interaction with external systems



Reactive Security

- High number of incidents
- Increased legal and regulatory risks

...To



Autonomous Virtual Communications

- Autonomous management of multiple network elements at scale
- Fully utilize and optimize the capabilities of 5G



Agile Operating Model

- Accelerated product delivery
- Greater flexibility to respond to customers' needs



Data-Centric Enterprise

- Seamless Interaction across various data systems
- Data driven decision-making via real-time analytics

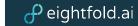


Platform for Open Services

- Open APIs for digital service management
- Integration with external partners, enabling new services and business models



- End-to-end security practices
- Real-time threat detection and prevention
- Al-driven regulatory compliance



4 Key Talent groups make up a Telecom organization



% Telco Workforce Employed



~45%

Customer facing division of a Telco which includes functions such as Sales, Retail, Customer Service, and Call Centre Services





Core operations of a Telco organization such as **Design**, **Implementation** and

Maintenance of



~30%

Technical department of a Telco which includes functions such as **Product**Management, Software

Development, IT, and

Analytics



Businessupo



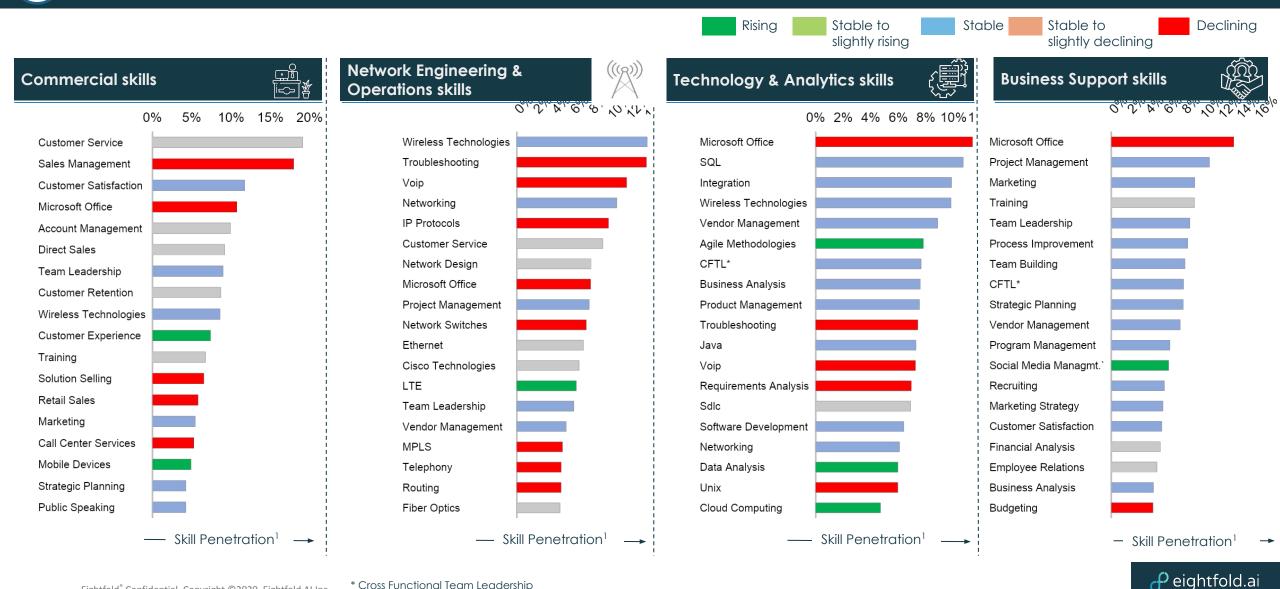
Networks

Administration and support of a Telco which includes functions such as HR, Finance, Accounting, Legal and Supply-Chain





Similarly, the top penetrated skills in the industry are either stable or declining



^{*} Cross Functional Team Leadership

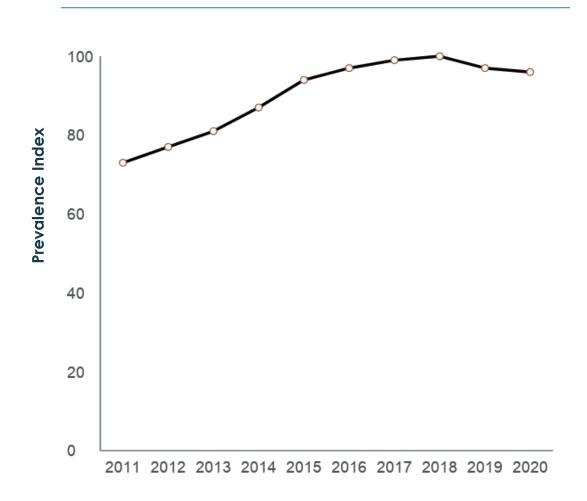
[`]Social Media Management

The skill mix for roles has been evolving and changing rapidly

EXAMPLE

New Skills Rising

Software Engineer – role prevalence

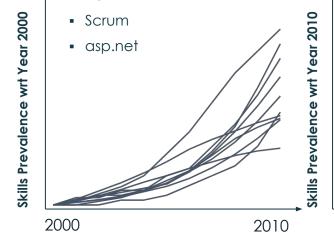


Software Engineer – skill trends

Top rising skills¹ in 2010

- Spring Framework
- ¡Query
- Jira
- Apache Maven
- JSON
- Android Development
- C#





Top rising skills¹ in 2020

- react.js
- Spring Boot
- Docker
- AngularJS
- node.js
- MongoDB
- Git
- Amazon Web Services
- HTML5

2010

Machine Learning



2020

Moreover, innovation trends are increasing the need for new skills/capabilities

Skills rapidly gaining relevance 5G and loT Big Data **SDN** and **SASE Open RAN** Cloud and Edge Computina Network automation and Efficient, smarter network Broadband-Like Virtual Assistants for Flexibility, choice, uniformity and agility in Mobile Service management Customer Support management **RANs** Low latency and High Highly Scalable and Preventive Dynamic WAN reroutes Network Capacity Lower TCO of Networks Flexible Infrastructure maintenance **Use-cases** Stronger security posture Smart Traffic Mobility Faster time-to-market Network Optimization Resource Sharing Reduced time-to-market and Grid-Automation Targeted consumer Recommendation for new products Traffic Steering Expanded Industrial IoT experiences and solutions Engines Network Slicing Cloud Computing Python SD-WAN C-RAN Massive MIMO Virtualization TensorFlow Network Virtualization CI/CD Practices NFV² Network Automation AWS Data Mining vRAN **Key Skills** Interoperability Node.is Hadoop Kubernetes Vmware Edge Computing Near Field Machine Learning OpenStack DevOps Communication Fog computing Cyber Security Deep Learning Small Cells DevSecOps NLP Telco' Talent Readiness¹



2 Network Function Virtualization

🕜 eightfold.ai

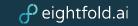
3 solutions to help overcome the talent challenges



1. Upskill/reskill the current workforce

2. Calibrate roles with future skills

3. Hire for Potential



Analyze how the current and future roles are related

Direct Skill Overlap
Related Skill Overlap

Current Role

Network Technician

% Skill assistant

- + Networking
- + VolP
- + Troubleshooting
- + Network Switches
- + Cisco Technologies
- + Microsoft Office
- + Computer Hardware
- + Routing

- + TCP/IP
- + Technical Support
- + Ethernet
- + Wireless Networking
- + Network Administration
- + Servers
- + Data Centers
- + Network Security

High degree of Skills overlap



Network Engineer

Future Role

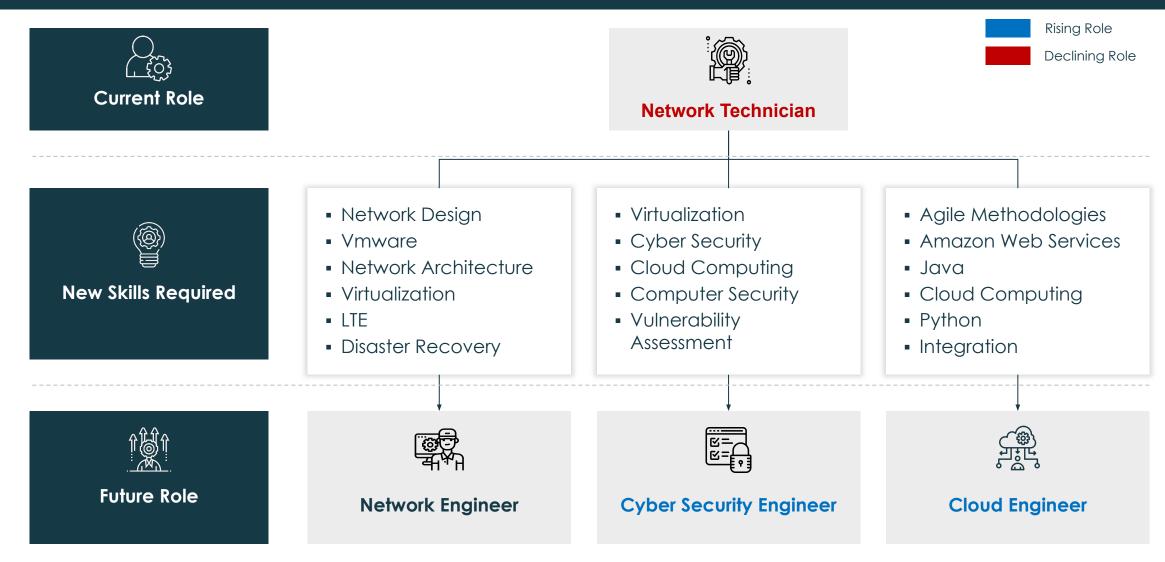
Skill assistant

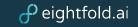
- + Networking
- + Troubleshooting
- + Network Design
- + Network Switches
- + Cisco Technologies
- + LTE
- + Routing
- + MPLS

- + Data Centers
- + TCP/IP
- + Vmware
- + Wireless Networking
- + Network Security
- + Network Architecture
- + Virtualization
- + Disaster Recovery

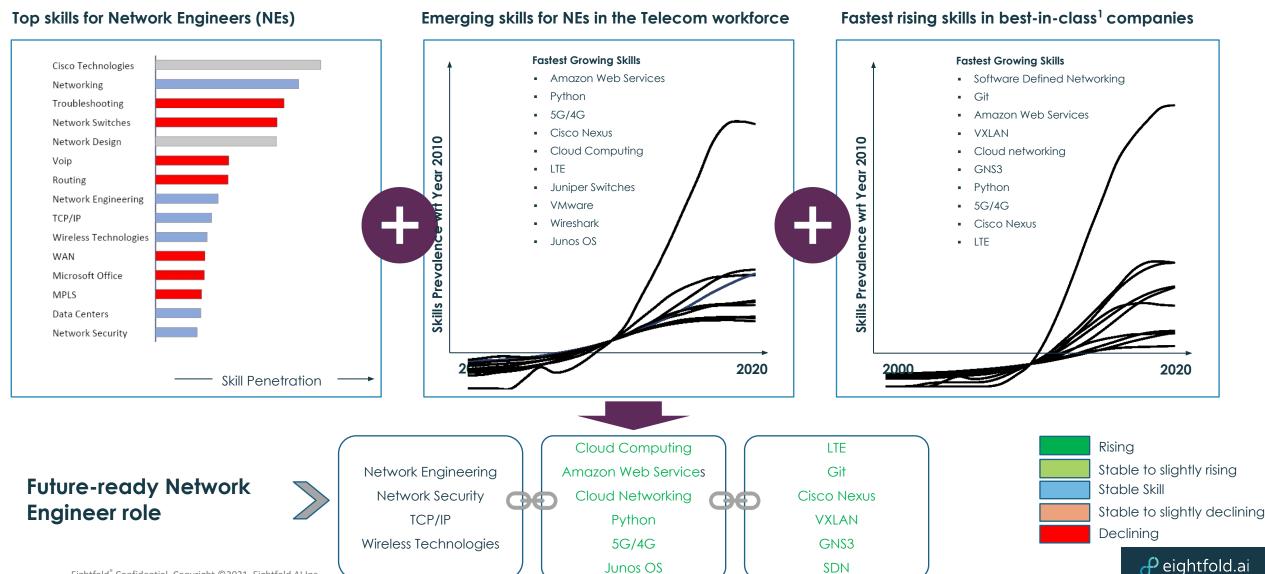
Skills inferred and validated by Eightfold Al

Outline the skills requirements into the future roles





Telcos can build the workforce of tomorrow by calibrating roles with the skills of the future



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Source: Eightfold Talent Intelligence Platform

1 best-in-class companies considered for Network Engineers are Cisco, Amazon, Facebook, IBM, AT&T, Verizon and T-Mobile

Future Skills

Telcos can adopt "hiring for potential" approach, which makes available a much larger talent pool

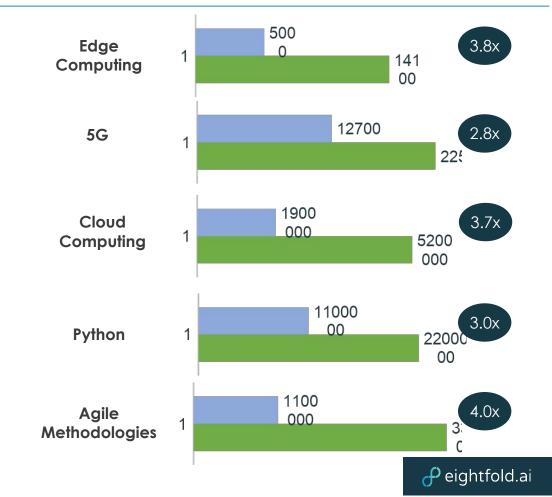


Telco workforce

Adjacent Skills _____

Edge Computing	Cloud Computing	ЮТ	Virtualization	LTE	Wireless Technologies
5G	LTE	Wireless Technologies	4G	Network Function Virtualization	MIMO
Cloud Computing	SaaS	Virtualization	Integration	Data Canters	Solution Architecture
Python	C++	Algorithms	Java	R	Data Structures
Agile Methodologies	Scrum	SDLC	Requirement Analysis	User Centred Design	Continuous Integration

Potential to learn based on adjacent skills - US Workforce

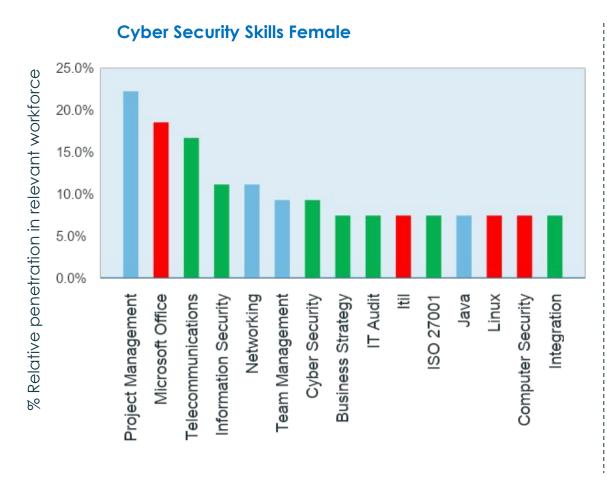


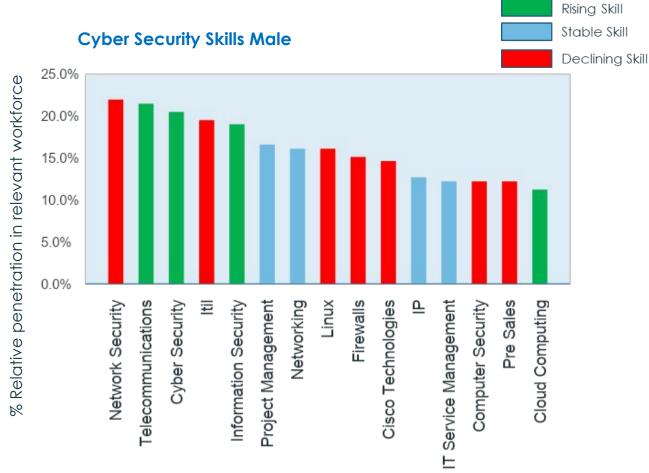
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Gender Skills Deep Dive



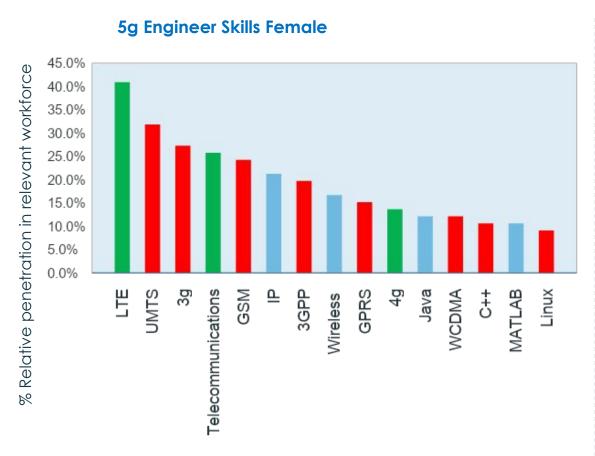
Skill bakeoff – Cyber Security Female vs Male Europe

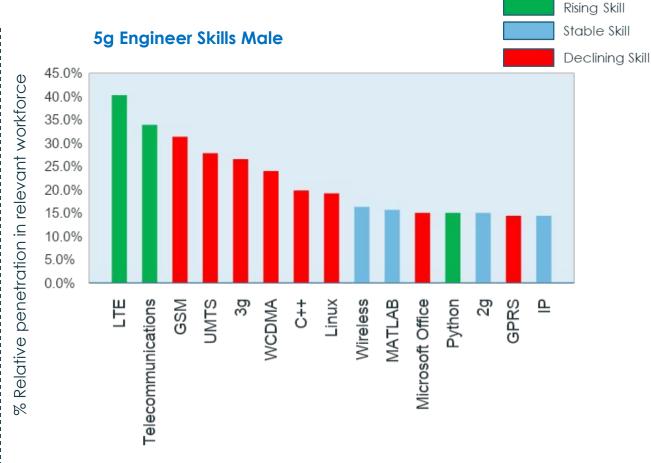






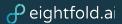
Skill bakeoff – 5g Engineer Female vs Male







Employee Experience DEMO



AI for Good: Supports Worker Inclusivity, Mobility and Upskilling

Al Feature	Worker Benefits
Transparency of jobs and matching	Empowers workers - movement is no longer dependent on who you know
Ecosystem that supports career development	Able to identify learning, mentors and projects that support career mobility objectives
Skills Adjacency Intelligence - identifies potential to learn new skills	Supports successful upskilling, ensuring employees develop rising skills in growing demand
Skills-based decisions and inclusivity tools	Limits bias throughout the talent processes
Automation lessens administrative work	Recruiters, people leaders, and HR leaders are able to focus on higher order and more critical needs



APPENDIX



With skill intelligence and matching, many new activities are enabled



Talent Strategy

- Automate Job skill requirements to build critical skills at scale
- Understand prevalence of jobs and skills, and rising and declining skill trends
- Understand workforce skills
- Benchmark workforce skills to competitors or industry



Talent Mobility, Learning and Succession Planning

- Employees able to **match to internal jobs** for transparency and empowerment
- Align learning with career mobility objectives
- Identify pathways for employee upskilling based on adjacent skills (i.e. potential)
- HL tools to support direct report development
- Matching and automation for succession planning



Talent Acquisition

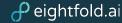
- Match applicant in ATS database for sourcing
- Comprehensively **screen** hundreds of applicants in minutes
- Personalized and Targeted CRM
- Efficiently manage recruiting events
- Operationalize inclusive recruiting practices for more diversity
- Automated scheduling, interview guides and feedback
- Performance dashboards for recruiters and leaders



Eightfold's Commitment to the Ethical Principles for Al

Our commitment to ethical AI is embodied in our human-centered AI design and governance. Eightfold AI is built on the principles of fairness, accuracy, and robustness. These values guide the lifecycle of our services: from our privacy-forward approach to AI input data, to creating insights that help institutions foster an equitable workforce.

- (1) Responsible: We believe that human oversight is a critical tool for responsible Al governance. Eightfold conducts regular feature audits to check against biases before implementing any changes to the algorithm.
- (2) Equitable: Every individual should be matched to opportunities that best fit their capabilities and skills. Eightfold's platform is designed to be fair across protected groups. Our algorithms do not consider gender, race, age, and other personal protected characteristics that can lead to unconscious bias.
- (3) **Traceable:** Eightfold validates AI systems with pre-deployment testing to reinforce risk management and human oversight. We couple these safeguards with strong post-deployment controls to provide transparency and configurability to our customers and candidates.
- (4) Reliable: Eightfold is compliant with OFCCP non-discrimination obligations. Eightfold's AI validation methods such as candidate masking and statistical parity provide reliable measures for mitigating biases.
- **(5) Governable:** Our Al drives equitable employment and talent management. We govern our Al with the goal to facilitate outreach to diverse groups, mitigate selection biases, and promote diversity and inclusion. Eightfold brings experience in working jointly with government and stakeholders to accelerate labor market transitions with the responsible use of Al.



How clients are measuring success with Al



Quality

145% Avg increase in % female hires

190%* Avg increase in % ethnic minority hires



Experience

70% Avg increase in internal hires



Efficiency

Faster Time to Fill Overall (ConAgra)

Fewer Recruiter Hours per Role (Air Asia)



^{* 9} Month average across Eightfold customers, February 15, 2022