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“Can Europe deliver the qualified engineers it needs for the future?”

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Mrs Cathy SMITH
Moderator

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Mr Ulf BENGTSSON
Treasurer, FEANI

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Mr Alexander RIEDL

Deputy Head of Unit Digital Economy and Skills (F4), DG CNECT, European Commission

European Commission

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Dr Ekaterina VLADISLAVLEVA

CEO, DataStories International NV

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Preparing the next generation of

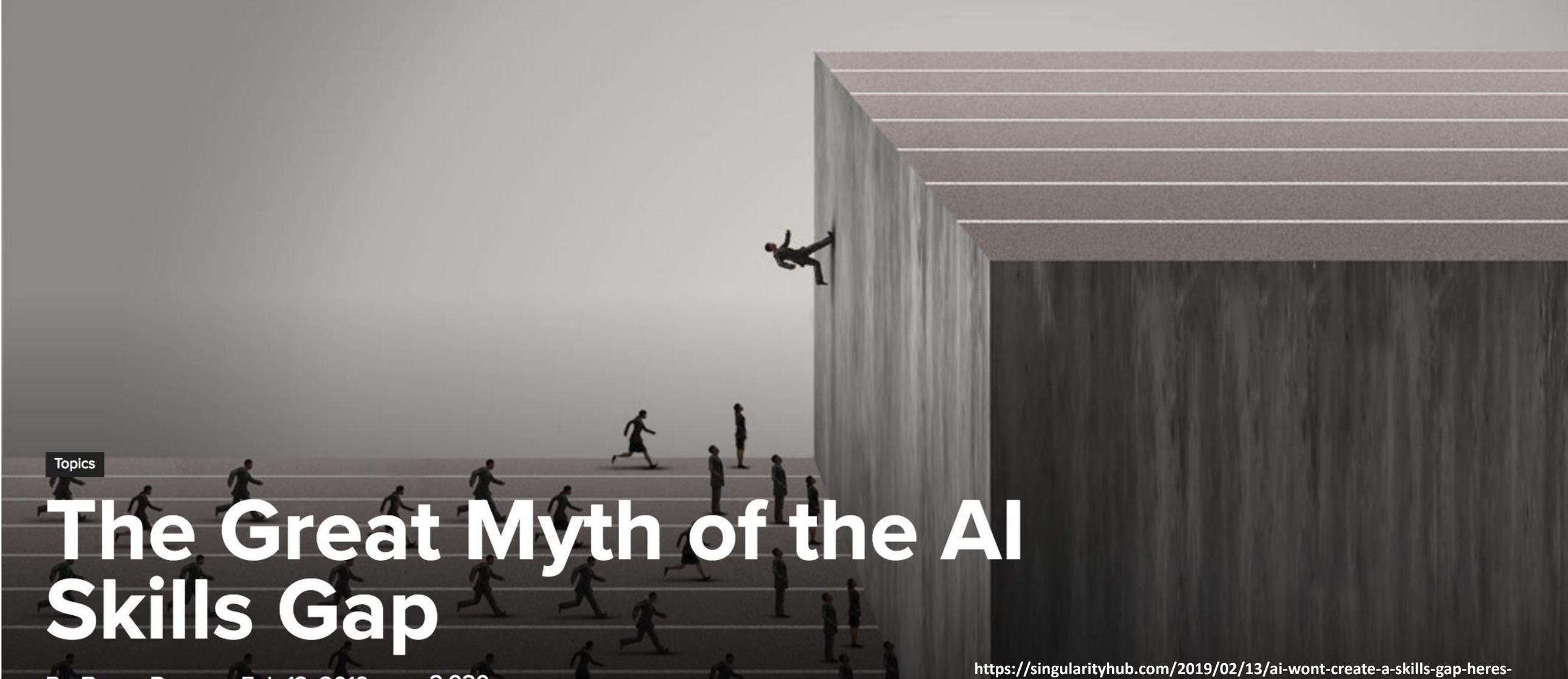
Innovators and decision takers

In the context of AI and emerging technologies

By Katya Vladislavleva, PhD, PDEng,
CEO DataStories International NV

katya@datastories.com
+32 47 638 8497

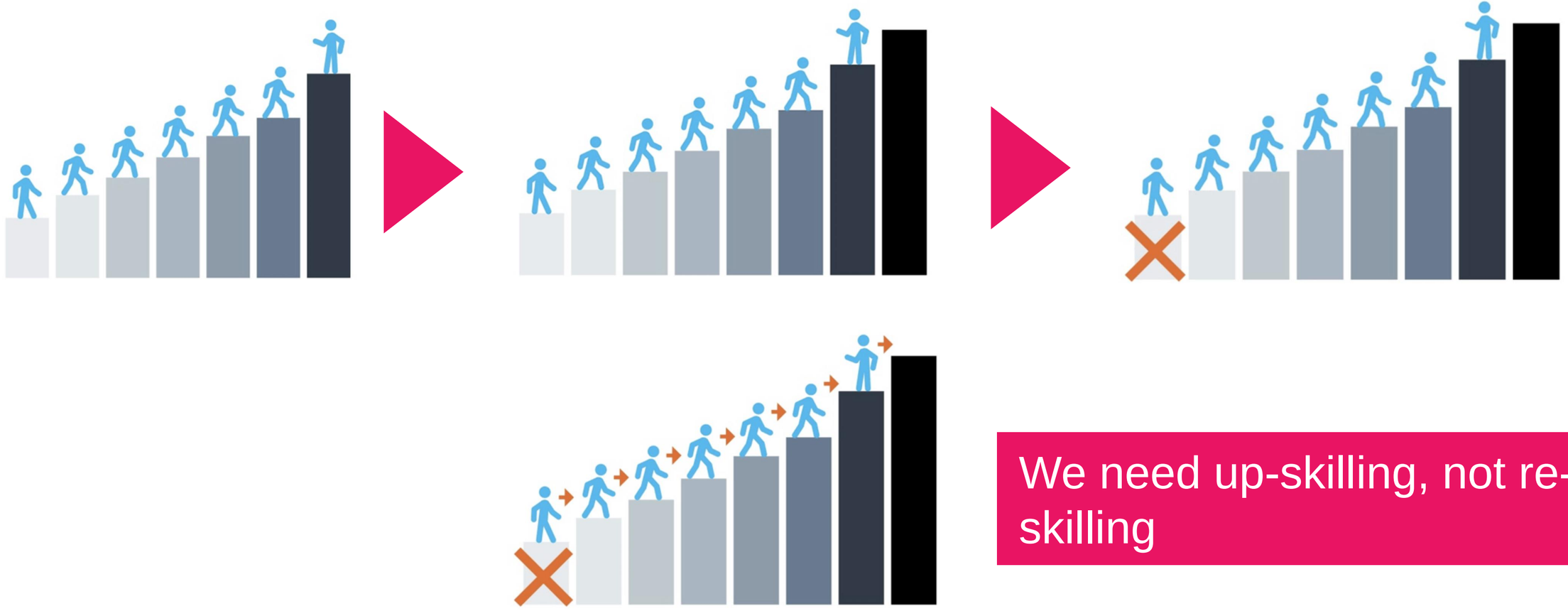
Data Analytics
Advanced Analytics
Predictive Analytics
Prescriptive Analytics
Big Data
Machine Learning
Data Science
Artificial Intelligence (AI)
Augmented Intelligence (AI)



Topics

The Great Myth of the AI Skills Gap

https://singularityhub.com/2019/02/13/ai-wont-create-a-skills-gap-heres-



We need up-skilling, not re-skilling

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From “The great Myth of the AI Skills Gap” by Byron Reese

DATA DRIVEN

How does it work?

One of the innovation practices high-growth companies use to be data driven is to apply advanced analytics to identify cost savings.

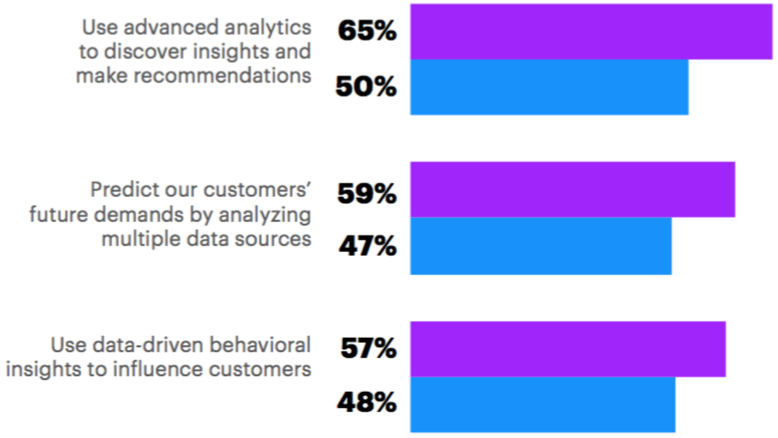
Chevron, the world's third largest publicly traded oil producer, is spending $4.3 billion this year on shale basins, approximately a fifth of its global spending. It is using data-analysis expertise gained at its offshore wells to make horizontal drilling more efficient. This analysis is based on a proprietary database of over five million well attributes, supplemented by data analytics of petrophysical properties.[1]

The insights gained helped Chevron reduce the time take to drill a shale well from 27 days, to just 15 days, for longer and more complex wells.[2]

Figure 10:

Respondents that plan to adopt an innovation practice to a significant extent over the next five years

% ● High-growth companies, n=118, vs. ● Others, n=722



Sources: (1) Chevron Q3 2017 Earnings Call, 27th October 2017, Bloomberg Terminal; (2) Crowley, K. and Blas, J. (2018): "Was This Oil Giant Smart or Just Lucky?", Bloomberg Businessweek, March 7.

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From Accenture Report "Discover Where Value's Hiding?" 2019

WORLD ECONOMIC FORUM
COMMITTED TO IMPROVING THE STATE OF THE WORLD

Insight Report

The Future of Jobs Report 2018

Centre for the New Economy and Society

Table 3: Examples of stable, new and redundant roles, all industries

Stable Roles	New Roles	Redundant Roles
Managing Directors and Chief Executives	Data Analysts and Scientists*	Data Entry Clerks
General and Operations Managers*	AI and Machine Learning Specialists	Accounting, Bookkeeping and Payroll Clerks
Software and Applications Developers and Analysts*	General and Operations Managers*	Administrative and Executive Secretaries
Data Analysts and Scientists*	Big Data Specialists	Assembly and Factory Workers
Sales and Marketing Professionals*	Digital Transformation Specialists	Client Information and Customer Service Workers*
Sales Representatives, Wholesale and Manufacturing, Technical and Scientific Products	Sales and Marketing Professionals*	Business Services and Administration Managers
Human Resources Specialists	New Technology Specialists	Accountants and Auditors
Financial and Investment Advisers	Organizational Development Specialists*	Material-Recording and Stock-Keeping Clerks
Database and Network Professionals	Software and Applications Developers and Analysts*	General and Operations Managers*
Supply Chain and Logistics Specialists	Information Technology Services	Postal Service Clerks
Risk Management Specialists	Process Automation Specialists	Financial Analysts
Information Security Analysts*	Innovation Professionals	Cashiers and Ticket Clerks
Management and Organization Analysts	Information Security Analysts*	Mechanics and Machinery Repairers
Electrotechnology Engineers	Ecommerce and Social Media Specialists	Telemarketers
Organizational Development Specialists*	User Experience and Human-Machine Interaction Designers	Electronics and Telecommunications Installers and Repairers
Chemical Processing Plant Operators	Training and Development Specialists	Bank Tellers and Related Clerks
University and Higher Education Teachers	Robotics Specialists and Engineers	Car, Van and Motorcycle Drivers
Compliance Officers	People and Culture Specialists	Sales and Purchasing Agents and Brokers
Energy and Petroleum Engineers	Client Information and Customer Service Workers*	Door-To-Door Sales Workers, News and Street Vendors, and Related Workers
Robotics Specialists and Engineers	Service and Solutions Designers	Statistical, Finance and Insurance Clerks
Petroleum and Natural Gas Refining Plant Operators	Digital Marketing and Strategy Specialists	Lawyers

Source: Future of Jobs Survey 2018, World Economic Forum.

Note: Roles marked with * appear across multiple columns. This reflects the fact that they might be seeing stable or declining demand across one industry but be in demand in another.

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1. People matter
2. Context matters
3. Domain experts matter and take final decisions

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Image: ELEtimes

Critical Needs

1. **Augment domain experts with easy-to-use advanced analytics tools**
2. **Enable data scientists & data engineers communicate effectively to stakeholders**
3. **Pursue outcome-led initiatives**

2022 Skills Outlook

Growing

1. Analytical thinking and innovation
2. Active learning and learning strategies
3. Creativity, originality and initiative
4. Technology design and programming
5. Critical thinking and analysis
6. Complex problem-solving
7. Leadership and social influence
8. Emotional intelligence
9. Reasoning, problem-solving and ideation
10. Systems analysis and evaluation

Source: Future of Jobs Report 2018, World Economic Forum

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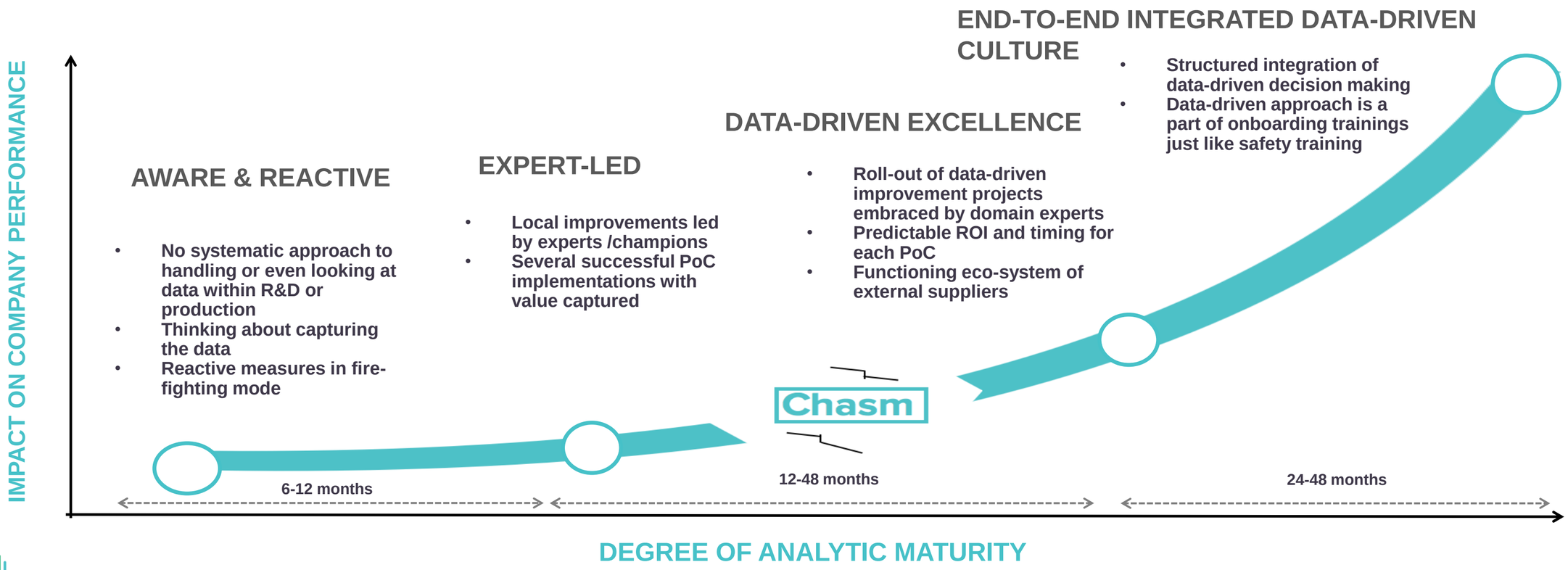
Goal is to help industries ascend towards data-driven culture



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Trainings need to be hands-on and teach a complete end-to-end capability. Below some examples from us

1. **Data science as a hypothesis generation tool for engineers**
2. **Symbolic regression as a “white-box” modeling tool for engineers**
3. **Intro to DS for data engineers – How data quality impacts analysis results**
4. **Business-driven data science for data scientists**
5. **A hands-on guide on dimensionality reduction for engineers**
6. **Managing expectations – common pitfalls in data-driven modeling and how to avoid them**
7. **Model-guided experimentation – turning experimental data into assets**
8. **How to build an internal data science capability for executives**

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Summary

- Up-skill engineers and domain experts in taking data-driven decisions
- Foster business context
- Up-skill data scientists in soft skills and the critical need of business goals
- Prepare: Building a culture takes time

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Image: ELEtimes

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Mr Frank HEEMSKERK
Secretary General,
European Round Table of Industrialists

ERT

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Securing Europe's Place in The World

Meeting organised by FEANI and The Parliament Magazine

Thursday 7 March,
Residence Palace, Rue de la Loi, Brussels

Frank Heemskerk – Secretary General
European Round Table of Industrialists

European Round Table of Industrialists (ERT)

ERT

- Forum of around 55 Chief Executives and Chairpersons
- Personal Membership
- Major multinational companies of European parentage
- Wide range of industrial and technological sectors

- Combined revenues > €2,250 billion
- Sustaining around 7 million jobs in the region
- €50 billion/year in R&D

"ERT strives for a strong, open and competitive Europe, with the EU, including its Single Market, as a driver for inclusive growth and sustainable prosperity."

European Round Table of Industrialists

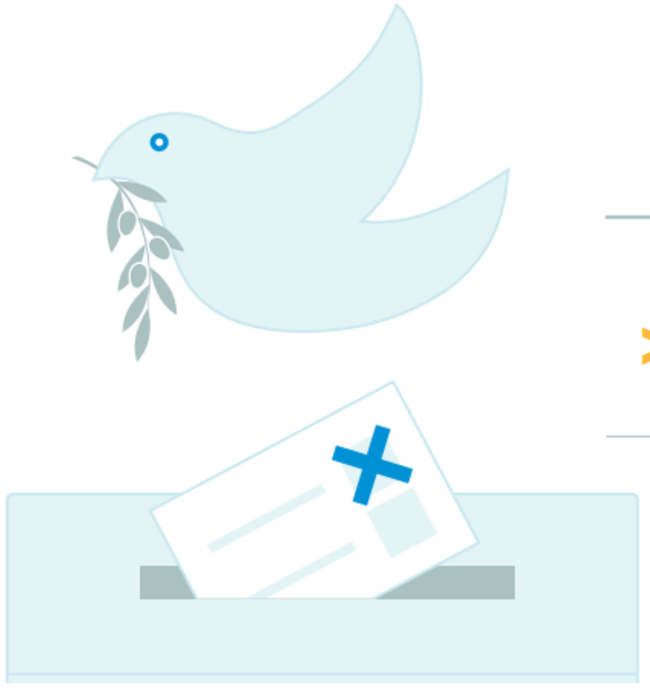
ERT

- Created in 1983 by 17 businessmen
- “Driving force behind the Single Market” (cfr. Jacques Delors)
- Contributions to various European projects:
  - Infrastructure
  - European Monetary Union
  - Digital Single Market

ERT Members will actively communicate Europe's achievements

ERT

PEACE AND DEMOCRACY



THE EURO

A SINGLE CURRENCY
used by
>330 million
IN 19 COUNTRIES

FREE MOVEMENT OF PEOPLE FOR WORK, LEISURE AND STUDY

THE SINGLE MARKET

500 million
generate
€14 trillion

The largest economy in the world with GDP of:
€25,000/

Opportunities and Challenges

ERT

ERT Industrial Confidence Index: overall declining business outlook – more positive outside Europe

		OCT-17	MAY-18	NOV-18
SALES	Europe	3.50	2.94	2.24
	Outside	5.10	5.10	4.38
INVESTMENT	Europe	1.80	1.47	0.92
	Outside	3.10	3.82	2.50
EMPLOYMENT	Europe	-0.40	1.06	0.00
	Outside	1.90	2.79	1.63

- Fundamental changes in rules-based international system (e.g. US, China, …)
- Increased nationalism & eroding citizens' trust
- Potential of digitalisation and globalisation undervalued
- Geo-economic shifts require more than ever a comprehensive EU industrial strategy

Drivers for more competitive and successful Europe

ERT

6 priority issues for Europe :

1) Complete the Single Market – energy, capital and digital
2) Improve European companies' competitiveness – by increasing R&D, innovation friendly fiscal policies & permit 'European champions' to develop healthily and compete globally
3) Address opportunities and challenges from digitalisation, the data economy, artificial intelligence and cybersecurity
4) Address the skills gap and promote lifelong employability
5) Ensure fair and rules-based global trade
6) Deliver an effective energy transition and tackle climate change

ERT Members commit to a strong, inclusive and united Europe

And are ready to pledge to:

1) Invest more in Europe
2) Creating value to society, support inclusion and diversity
3) Accelerate their company's digitalization strategies & share best practices
4) Contribute to developing skills & business-education partnerships
5) Support fair and free trade & effectively conduct diplomacy on WTO reforms
6) Help delivering the energy transition and reach the Paris Climate Goals

frank.heemskerk@ert.eu
Tel +3225343100

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Mr Stefan DEIX
Director,
European Council for Automotive R&D, EUCAR

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EUROPEAN COUNCIL FOR AUTOMOTIVE R&D

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EUCAR Perspective

Connected Automated Vehicles

Stefan Deix
Director of EUCAR

eucar
EUROPEAN COUNCIL FOR AUTOMOTIVE R&D

About the industry

- 13.3 million, direct and indirect, jobs in Europe
- 19.6 million motor vehicles produced in 2017 (EU28)
- Generating a trade surplus of €90.3 billion
- Investing more than €53 billion in R&D per year

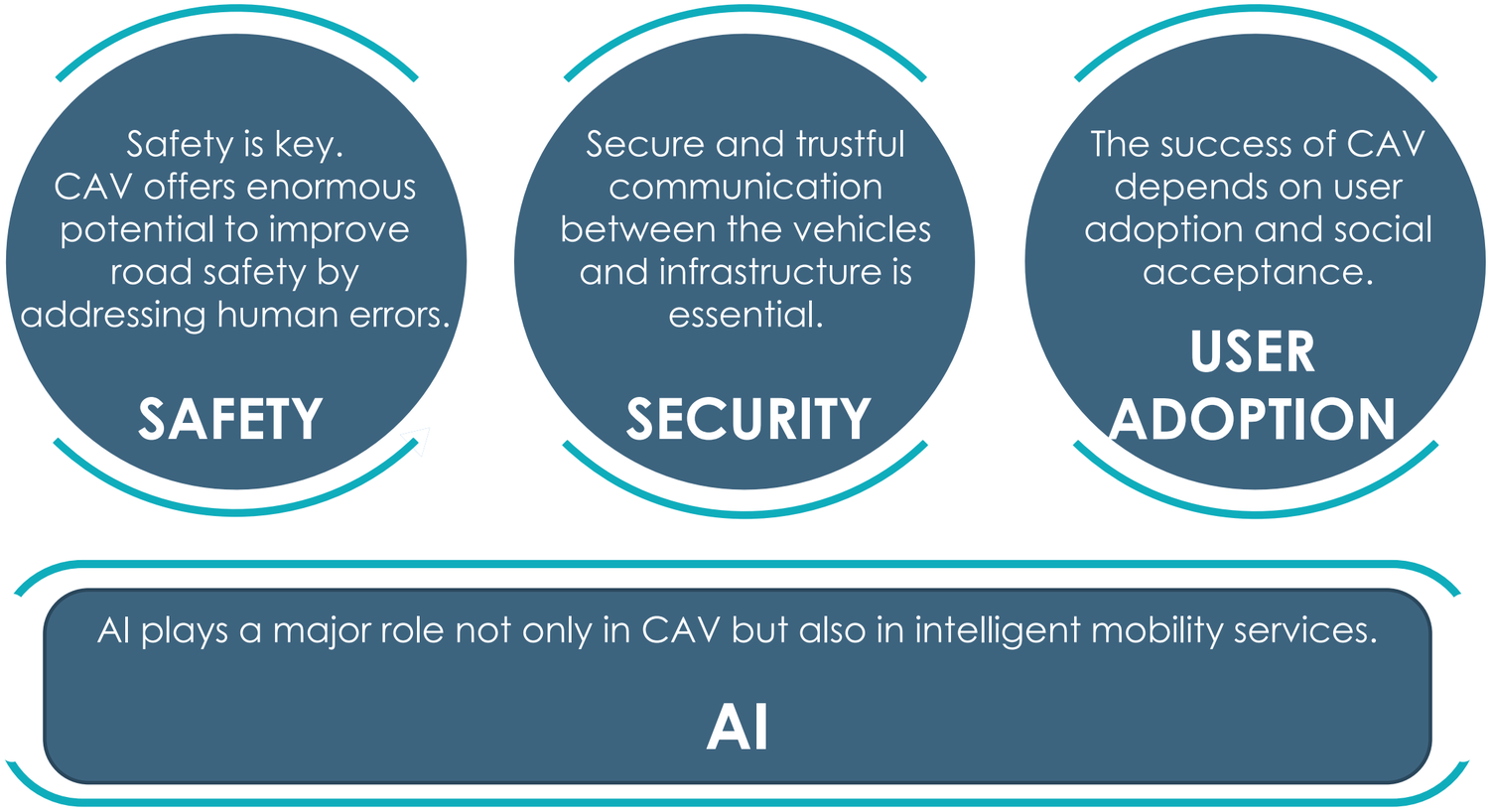
EUCAR Perspective: Connected Automated Vehicles

CAV technologies will support the Vision Zero targets set for 2050 by **decreasing the number of road fatalities** and accidents.

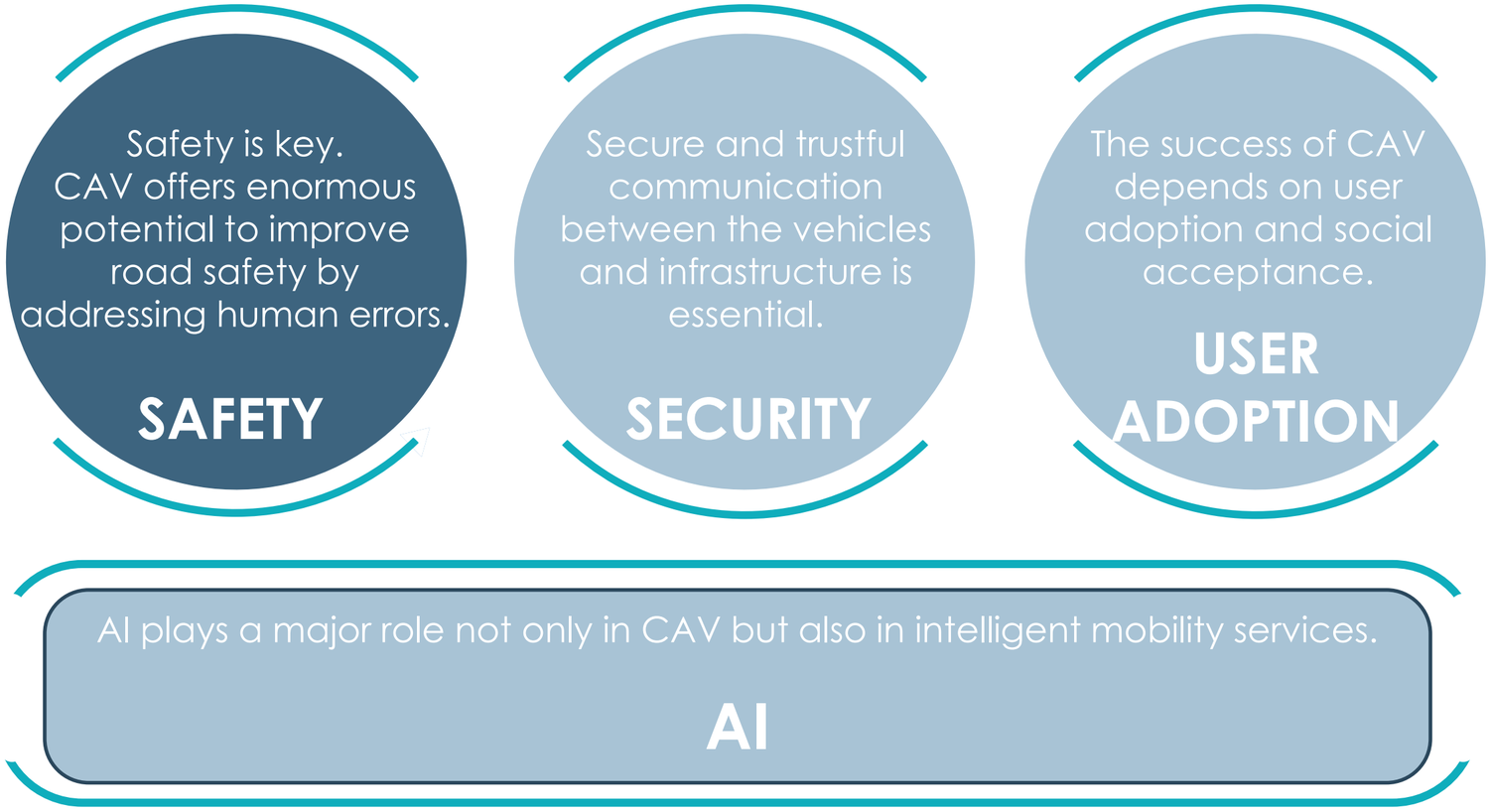
CAV contributes to reducing transport emissions and congestion while ensuring **inclusive mobility** for persons and goods.

CAV will enable new mobility concepts shifting design & development from a driver-centred to **mobility-user-centred** approach.

Scope


Safety is key.
CAV offers enormous potential to improve road safety by addressing human errors.
SAFETY
Secure and trustful communication between the vehicles and infrastructure is essential.
SECURITY
The success of CAV depends on user adoption and social acceptance.
USER ADOPTION
AI plays a major role not only in CAV but also in intelligent mobility services.
AI

Scope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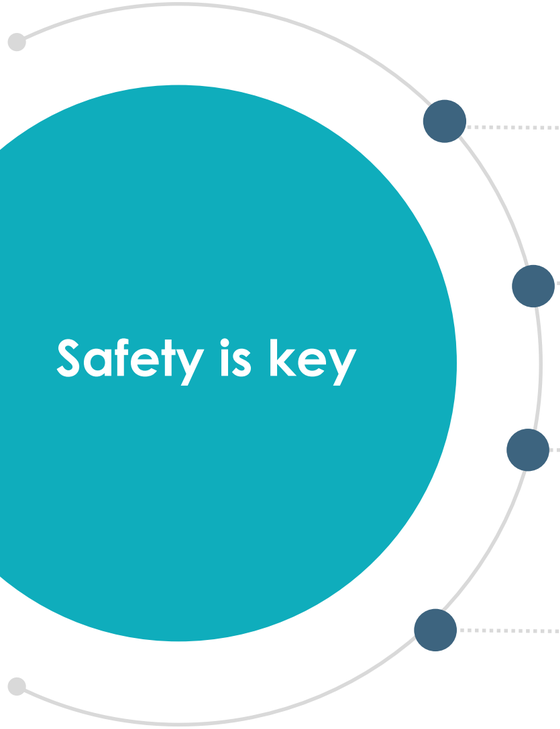


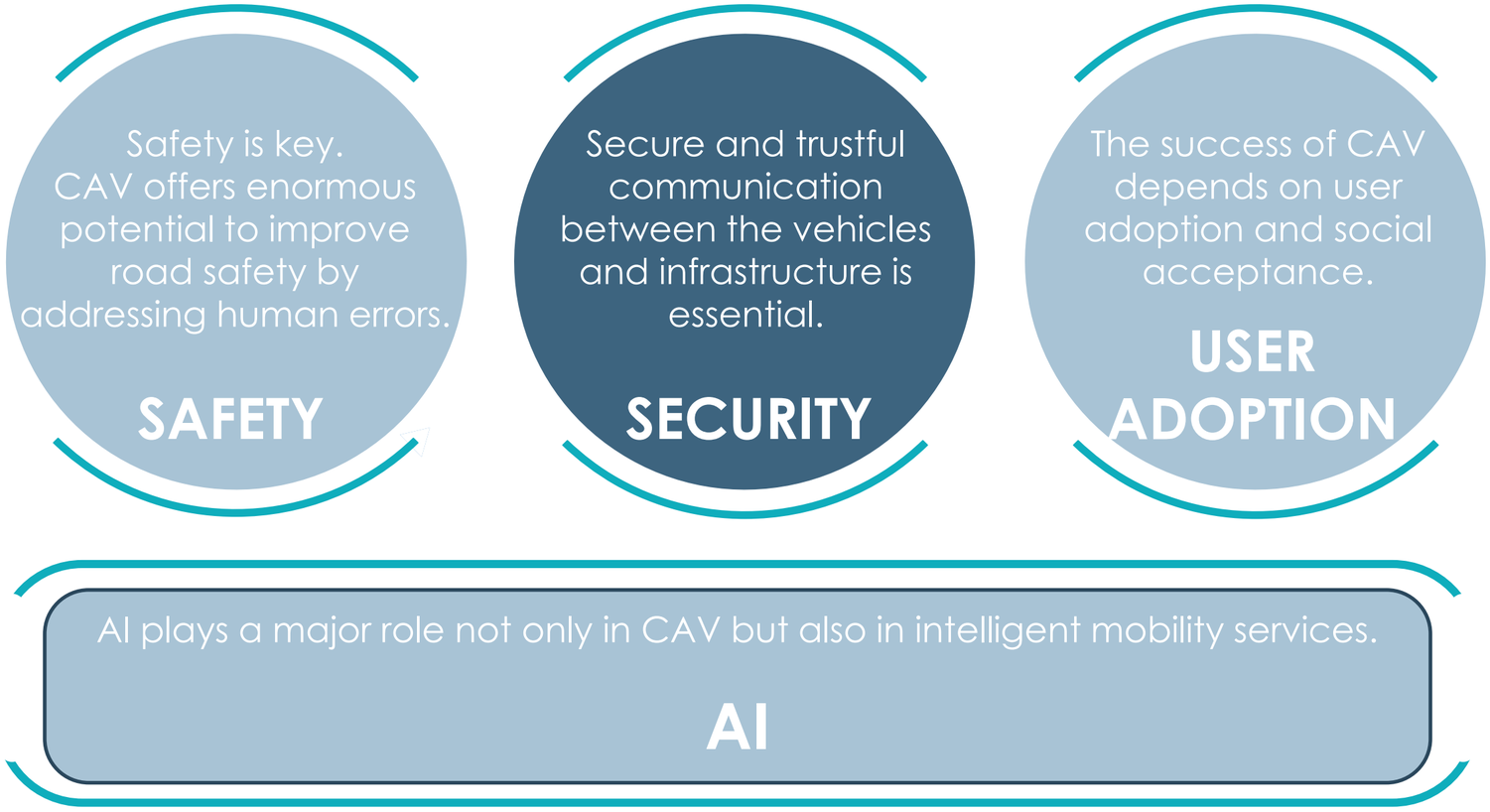
- Adapt and advance active safety functions so that CAV safely navigate expected and un-expected scenarios;
- Develop systems to anticipate and minimize risks, avoiding collision and to reduce the consequences of unavoidable crashes;
- Develop advanced passive safety systems protecting passengers in new, non-traditional seating positions;
- All safety and automated driving functions need to be tested, validated, and verified. For this we develop specific methods, design guidelines, as well as real world and virtual testing techniques.

WE INTEGRATE

safety by design

safety on each system aspects level and every development stage, from design to testing and validation.

Scope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CAV technologies and new business models involve producing and communicating huge sets of data.

Secure and trustful communication is essential

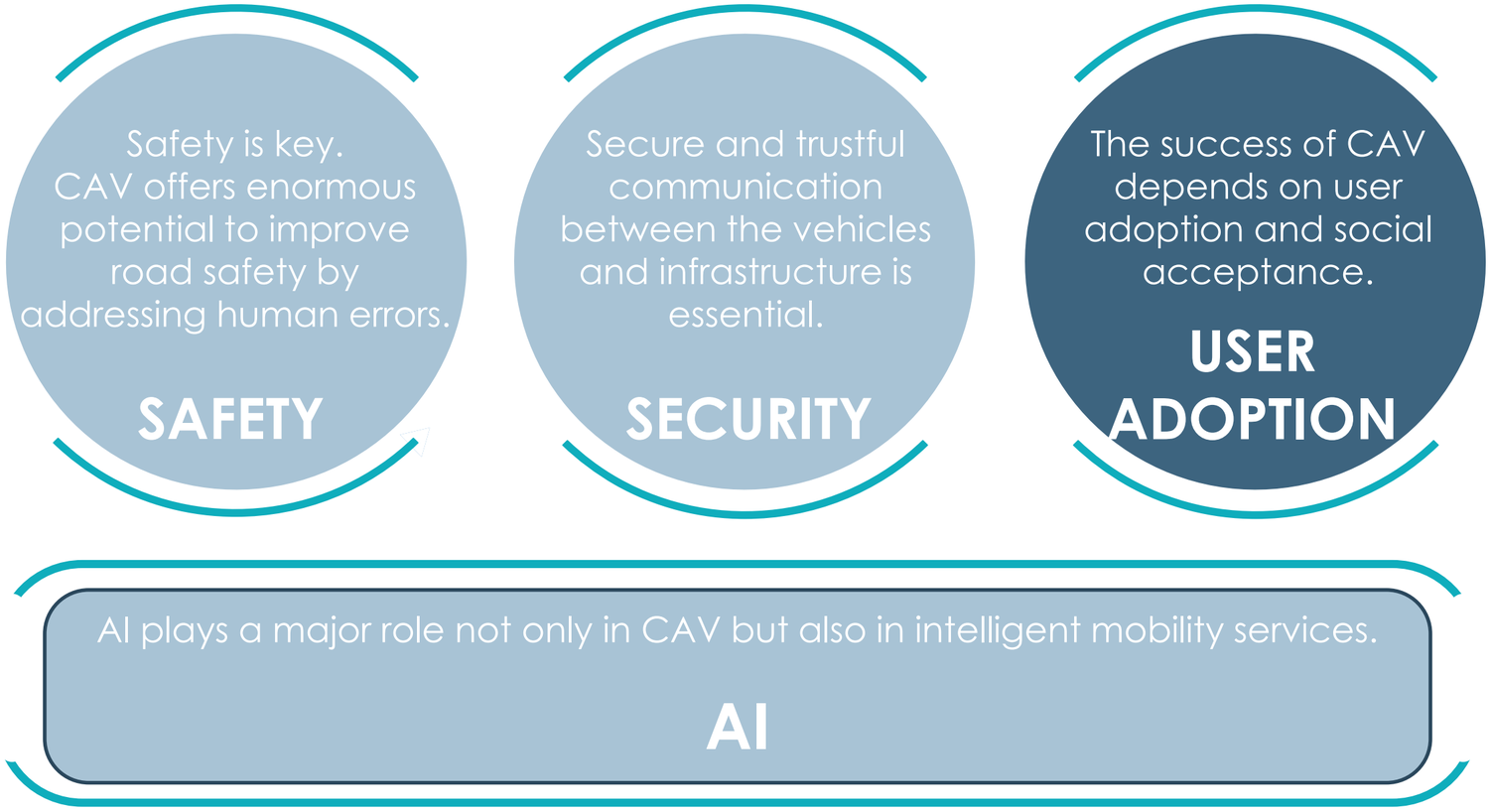
- Interoperability (EU/global) between vehicles and infrastructure is fundamental while ensuring economies of scale.
- ICT technologies evolve at a different pace than vehicle development and product lifecycles.
- Co-existence of different communication technologies for vehicles to share and use.
- We need innovative compatibility and interoperable solutions for all technologies deployed.

AS AUTOMOTIVE INDUSTRY

we actively develop security and privacy functions/systems

for safe, secure and trusted communication between vehicles and the digital infrastructure. Efficient security solutions are necessary from the beginning to ensure scalability.

Scope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The success of CAV depends on user adoption and social acceptance.

Genuine user adoption to change the mobility landscape

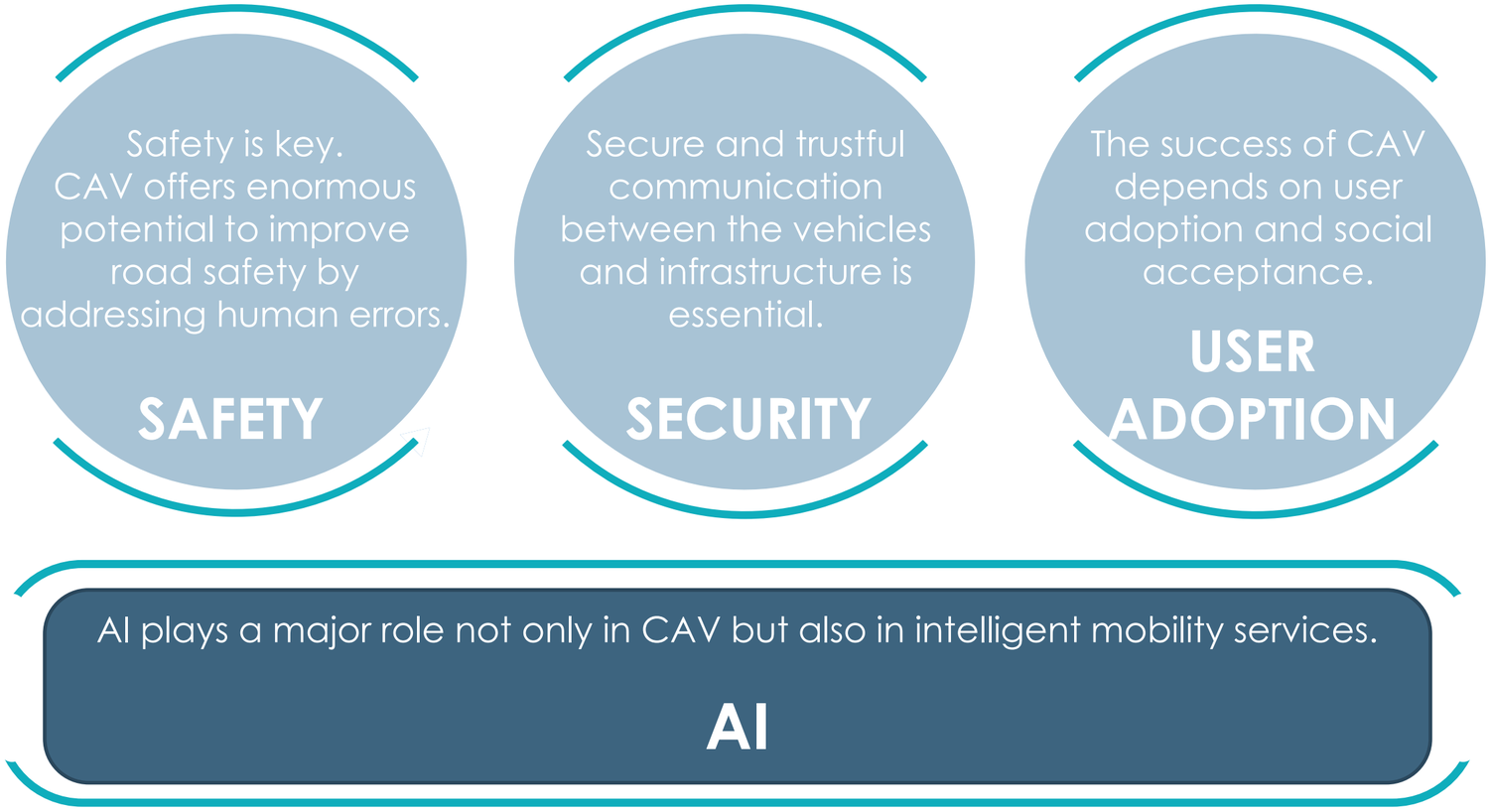
- Human-CAV interaction (in-vehicle and outside vehicle) at different levels of automation needs to be self-explanatory, intuitive and inclusive for all road actors;
- We are working on design solutions and standards to evaluate human misuse, skill degradation, level of trust, motion sickness and measures to further compensate;
- The translation of technical complexity to humans (in- and outside the vehicle) is crucial to create trust and social acceptance;
- We set requirements for our "vehicle internal and external" Human Machine Interactions and Interfaces to be self-explanatory, intuitive and inclusive.

EUCAR IS COMMITTED TO EVOLVE

from a driver-centred to a mobility-user-centred

design and development

Scope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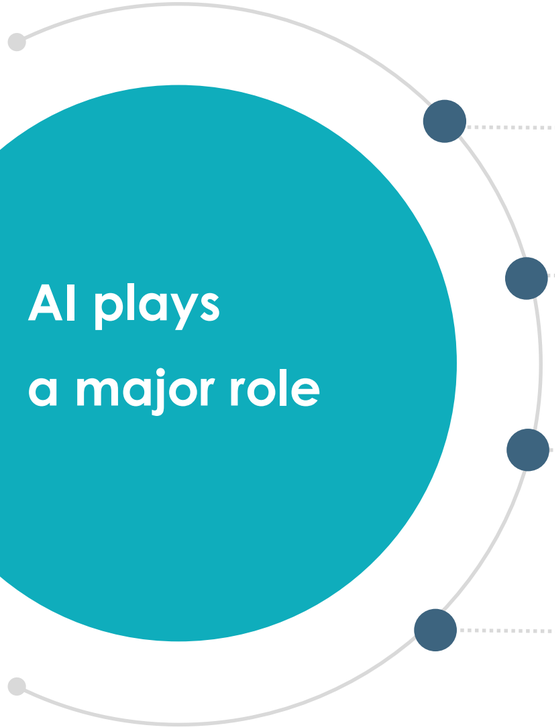

- AI as functionally competitive and affordable CAV technology enabling safe autonomous driving in a more complex traffic environment;
- Specific automotive requirements (safety, security, real-time functionality,..) demand the reinvention of AI for CAV in a European context;
- Development of an adequate and effective consolidating framework, integrating the most promising approaches from all over the EU;
- Implementing AI in automotive products, in particular in CAV, presents a variety of challenges, e.g. industrialisation, requirement-based development, continuous improvement of trained modules for application in safety critical domains.

VERIFICATION & VALIDATION OF

AI is essential

for CAV to operate in more complex urban traffic scenarios. We need a robust and reliable European framework. Beyond European harmonisation we strive for alignment on a global (UN) level.

EUCAR Projects

CONNECTED AUTOMATED VEHICLES

L3PILOT

Piloting Automated Driving on European Roads

Objective	Demonstrate automated driving in complex traffic environments.
Expected Achievements	Optimal design and handling of Automated Driving functions and knowledge about the most effective way of their implementation. Valid data on impact of Automated Driving on safety &traffic efficiency. Code of Practice for Automated Driving with guidelines for systematic development of Automated Driving functions.
Benefits for society	Accelerating the implementation of level 3 automated driving by addressing technical and legal constrains.

Partners: 34
(11 Members)

Budget: 68 M€

Funding: 36 M€

ENSEMBLE

Enabling Safe Multi-brand Platooning for Europe

Objective	Pave the way for the adoption of multi-brand truck platooning in Europe to improve traffic safety, throughput and fuel economy.
Expected Achievements	Develop solutions to ensure robustness, reliability and interoperability of the platoon operation in real road conditions. Promote multi-brand platooning by demonstrating in real traffic conditions across national borders.
Benefits for society	Making road transport more efficient and safer.

Partners: 20
(6 Members)

Budget: 26 M€

Funding: 19 M€

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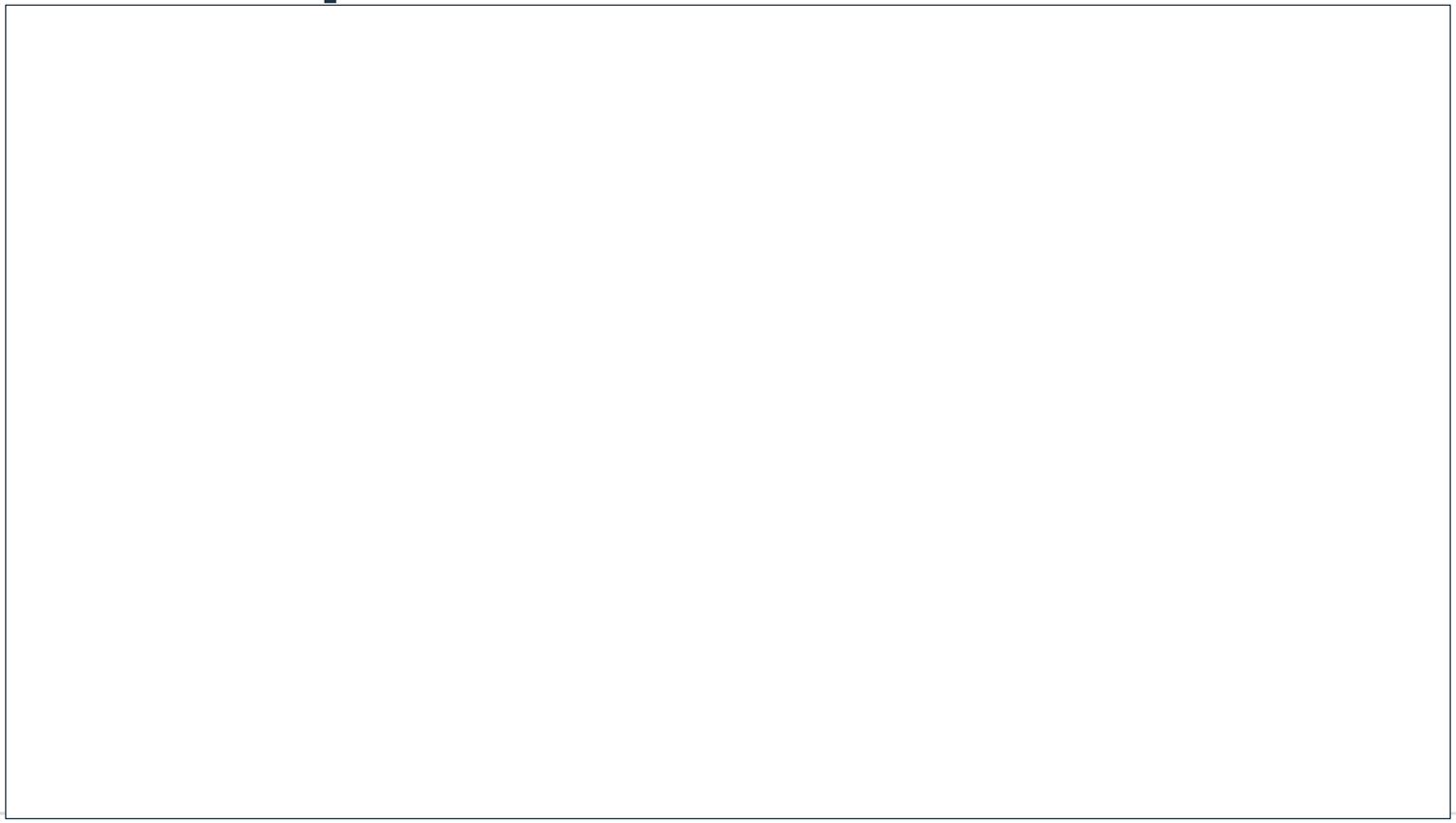
EUROPEAN COUNCIL FOR AUTOMOTIVE R&D

European Commission
Co-funded by the Horizon 2020 Programme for Research & Innovation

EUCAR CAV Perspective Video



Conclusion

- EUCAR is committed to guide the transformation of road transport into connected, automated and integrated vehicles and services.
- Ensure economic productivity, jobs and growth by establishing leadership for European value chains through research and innovation.
- Invest in research and innovation and address the key challenges for 2030 to provide benefits to society
- EUCAR recommends for future public-private partnerships (PPPs) in FP9:
  - lean administration, strategic planning and industrial relevance

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Ms Julia STÖCKERT
Founder, Skillary GmbH

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SKILLARY.

Digital talent and task Platform for the built environment.

VISION

SKILLARY. is revolutionizing the job market for talent and experts creating the built environment.

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FREEMIUM PROFILE
FOR ARCHITECS AND ENGINEERS

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PREMIUM PROFILE
FOR COMAPNIES

SKILLARY. matches **subject-matter specialists** within the built environment, including architects, engineers as well as adjacent corporate clients and service providers.

Choose from **250+ options** to describe your **areas of expertise** & identify collaboration opportunities between companies.

WHAT SKILLARY. OFFERS

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Because of imprecise description options architects and engineers are not traceable online.

WHERE DO TALENTS SHOW THEIR SKILLS ONLINE?

NO ONLINE VISIBILITY AS ENGINEER.

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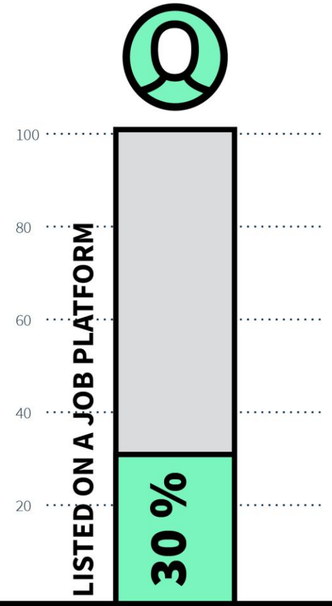

Only **30%** of the questioned architects and engineers are listed on a Job-/ Career Platform like LinkedIn or Xing.

NO ONLINE VISIBILITY AS ENGINEER.

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Cities grow and get smarter every day! But how and where do these challenges meet with the right skills and talents?

WHERE DO COMPANIES START TO LOOK FOR TALENTS?
WHERE DO COMPANIES REALLY ATTRACT NEW TALENTS?

NOT NOTICEABLE AS COMPANY.

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How **SKILLARY.** contributes to the transformation of the talent and job market within the built environment.

6 DRIVERS SETTING THE DYNAMICS OF OUR JOB MARKET

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Quelle(n): index Anzeigendaten

1

FLEXIBLE WORKING MODELS

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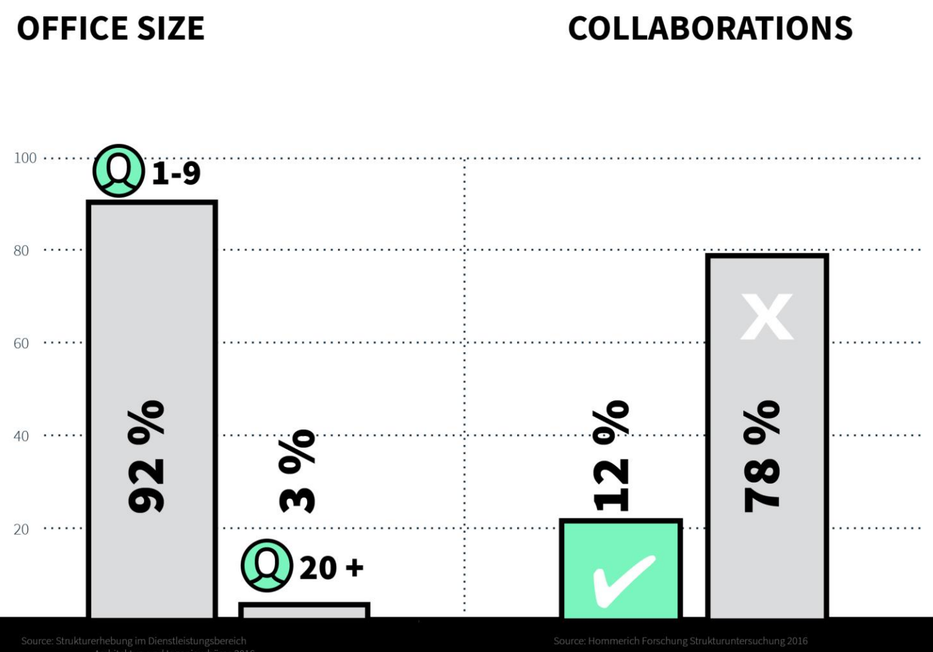

Source: Strukturerhebung im Dienstleistungsbereich Architektur- und Ingenieurbüros 2016

Source: Hommerich Forschung Strukturuntersuchung 2016

2 KNOWLEGE TRANFER & DIVIDING WORK VIA COLLABORATIONS

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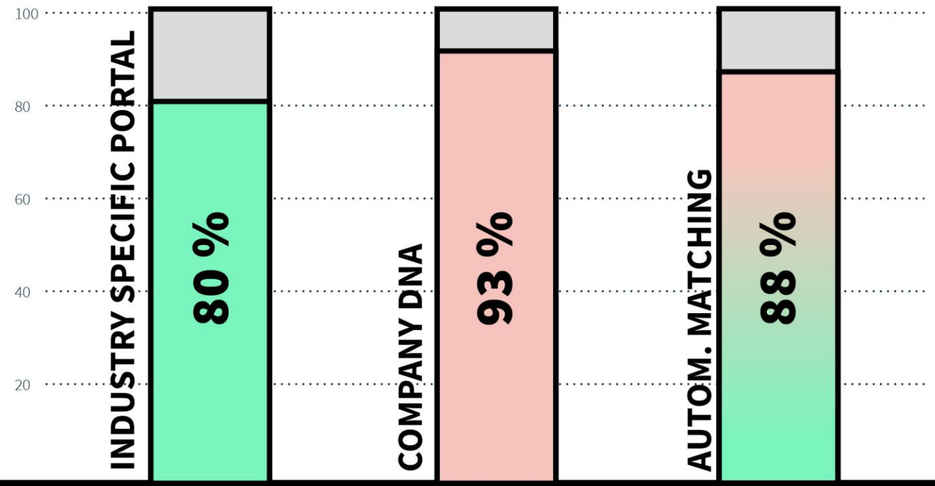
EVALUATION SURVEY

SKILLARY Talent Survey 11/2018



Source: SKILLARY Talent Survey 11/2018

3 SHOW YOUR PROFILE & WORK DNA ONLINE

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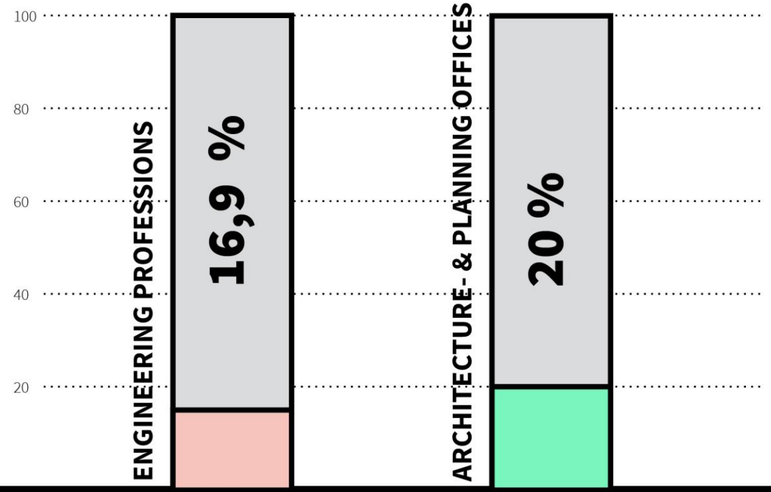
GENDER PAY GAP

der angestellten Architekten und Ingenieure in Deutschland 2017



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4 COMMUNICATE SALARY

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NEW SKILLS AND CAREER DEVELOPMENT

5

FOSTER YOUR SKILL-SET

copyright by SKILLARY.

INCREASE REACH OF SKILLED PROFESSIONALS INTERNATIONALLY

6

CROSS BORDER RECRUITMENT

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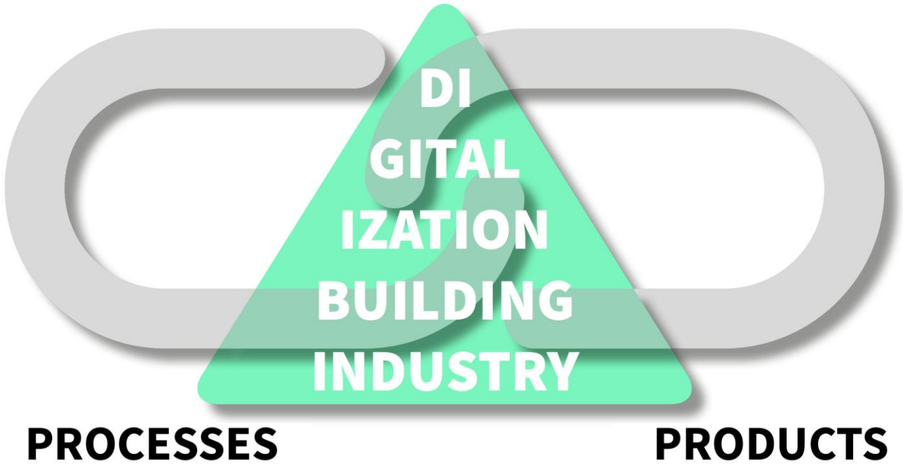
for
PEOPLE



DIGITAL VISIBILITY

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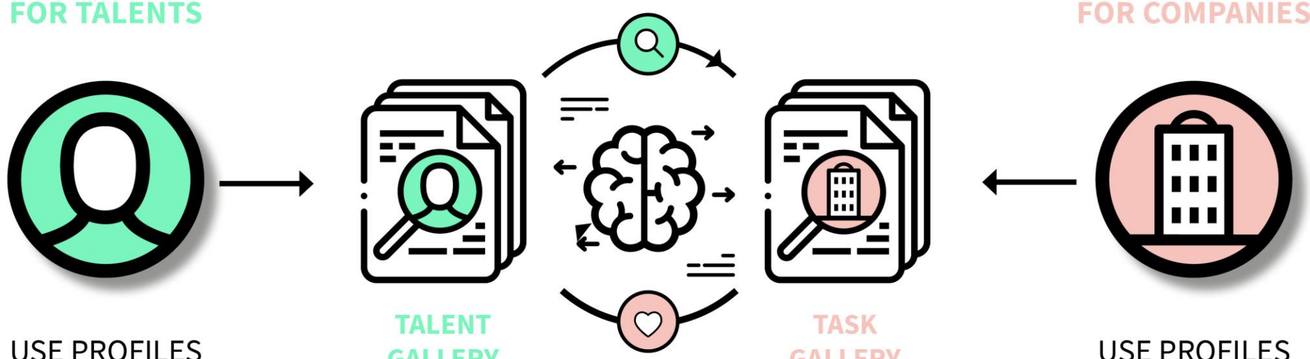
FREEMIUM PROFILES
FOR TALENTS



PREMIUM PROFILES
FOR COMPANIES

USE PROFILES
FREE

TALENT GALLERY

TASK GALLERY

USE PROFILES
with annual fee
SUBSCRIPTIONS

HOW SKILLARY. MATCHES TALENTS AND COMPANIES

copyright by **SKILLARY.**

SKILLARY. FOR TALENTS

COMPANY GALLERY

Company Search
using your criteria

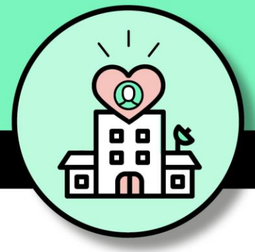
STAY TUNED

Always on the market –
actively and passively

NEW WORK

Flexible Work and
Cooperation Models

TALENT PROFILE



A profile according
to your skills
You I Now I in Future

copyright by **SKILLARY.**

FOR TALENTS

Show Hire **SKILLARY.** About DE EN

Skillary » Talentprofile » Max Mustermann

Max Mustermann
Architect

Munich

My strengths & aptitudes
Team leadership, curious, motivated,
Academia and laboratory construction

Save talent

Contact talent

Overview Skills Future References

„Realizing the construction of a skyscraper would be a dream come true for me“

Currently seeking new challenges both domestic or international. To acquire a fourth language is on top of my priority list.

2 degrees
11 professional experience
3 languages
previously 3 employers
3 special skills
2 IT skills

My skills

35 hours
3 personal interests
2 further education

What I am looking for

Bachelor Architecture I Project size:
< 5.000.000 I Professional experience: < 15 years
LPH 1-8 I team leadership: 3 years - team of 3

Work samples
Credentials & certificates

References

Show Hire **SKILLARY.** About DE EN

Skillary » Talentprofile » Max Mustermann

Max Mustermann
Architect

Munich

My strengths & aptitudes
Team leadership, curious, motivated,
Academia and laboratory construction

Save talent

Contact talent

Overview Skills Future References

Qualification

Professional experience
< 15 years
LPH 1-8

IT skills
ArchiCad
AutoCad

Special skills
Corporate Architecture
Interior Design
Monument protection

Project size / expense class
< 5.000.000 / 100 I 200 I 300 I 400

Teamleadership
3 years / team of 3

Languages
English
German
Spanish

Education

2003
Bachelor / Architecture
TU Berlin

2006
Master /
Civil engineering
TU München

Professional experience

2007 – 2010
Archi.brand
Munich
Full time employment

2010 – 2015
baueinhaus
Berlin
Freelance

2015 – 2018
webuilt
Munich
Full time employment

copyright by **SKILLARY.**

SKILLARY. FOR COMPANIES

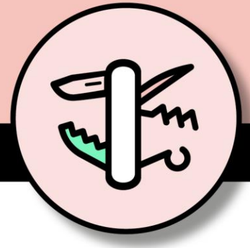
TALENT MANAGER

Our talent manager tool will administer all your talents and profiles identified

TALENT GALLERY

Describe tasks and actively seek talents

NEW WORK



Flexible Work and Cooperation Models

PROFILE

Company profile based on your company DNA

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FOR COMPANIES

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Skillary » Unternehmensprofile » YAY

Y

YAY
YAY Architects

4,5/5
2.332 Bewertungen

Büro merken
Empfehlen

Overview | About us | Working environment | Careers | Social | Images

YAY Architects
Herzogparkstr. 3
81679 Munich

info@yayarchitects.com
Phone +49 89 62423131
Cell +49 173 3529455

Staff
5 architects
4 interior designers
1 team assistent

Founded in 2016

Systems & IT
10 Mac OS

Tags
interior architecture
Munich | Restaurants
Social | Architecture
Freelance | Coffee | LPH 1-9
color design | Furniture
Reconstruction | dogs permitted
encouragement further education
model making workshop

Current job vacancies

We are looking for reinforcement for our team!
Two positions are available, preferably to architects with a focus on interior design.

2 »

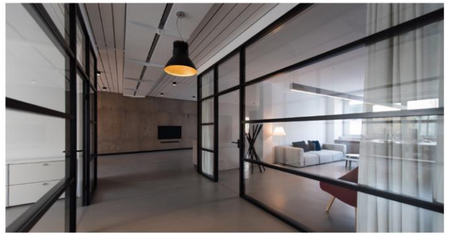
What makes us unique

Architecture is meant to inspire. YAY embodies this principle from conceptualization right throughout realization – be it in the interior space or within an urban context.

We are YAY! Everybody is and can become part of YAY!

Friday working hours end at 12:00
Twice a week we cook lunch for the team

Office »



Team »

Show Hire **SKILLARY.** About DE EN

Skillary » Unternehmensprofile » YAY

Y

YAY
YAY Architects

4,5/5
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5 architects
4 interior designers
1 team assistent

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10 Mac OS

Tags
interior architecture
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Social | Architecture
Freelance | Coffee | LPH 1-9
color design | Furniture
Reconstruction | dogs permitted
encouragement further education
model making workshop

Team & Social

Sabbatical
Negotiable.

Working models
We do not have or believe in core working hours; especially with young families core working hours will not always work.

Team
YAY should become a part of you.

Leave days:
28

Values
Honesty ❤ Trust

Further education
Everybody should have the possibility to further education and training. We offer ongoing training modules to which we invite subject matter expert speakers that can assist you on your specific needs – e.g. BIM management, visualization courses etc.

Tea Kitchen
Coffee and other beverages are complimentary.

Sports team
Soccer team – every last Friday of the month we practice our soccer skills together. We make the respective bookings for the soccer pitch.

Social construction projects
We support „Brunnen bauen e.V."

Team events:
We gather for a team meeting once a week to discuss the current status of projects and issues concerning the team
- Extensively long Christmas parties :)
- In house trainings

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COOPERATION PARTNERS.

Bayerische Architektenkammer

Technische Universität München

unternehmertum
Center for Innovation and Business Creation at TUM

ARI
ARCHITECTURE RESEARCH INCUBATOR

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INTERNATIONAL COOPERATION PARTNERS.

INTERNATIONAL CLIENTS.

INTERNATIONAL TALENTGALLERY.

WHAT SKILLARY. IS LOOKING FOR

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SKILLARY.

THANK YOU

www.skillary.de

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ENGINEERS EUROPE
ADVISORY GROUP

THE PARLIAMENT
POLITICS, POLICY AND PEOPLE MAGAZINE

Roundtable Discussion

Can Europe deliver the qualified engineers it needs for the future?

This session is moderated by Mrs Cathy SMITH

Dr Ekaterina VLADISLAVLEVA,
CEO, DataStories International NV

Mr Stefan DEIX
Director, European Council for Automotive R&D – EUCAR

Mr Frank HEEMSKERK
Secretary General, European Round Table of Industrialists

Ms Andrea KAISER
Founder, Skillary GmbH

Mr Hans VAN DER LOO
Chairman, Institute for Integrated Economic Research

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ADVISORY GROUP

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POLITICS, POLICY AND PEOPLE MAGAZINE

Mr Trond MARKUSSEN

FEANI National Members Forum Chairman

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FEANI – European Federation of National Engineering Associations
Prof. Dr. José VIEIRA
President

ASD – AeroSpace and Defence Industries Association of Europe
Mr. Jan PIE
Secretary General

BEST – Board of European Students of Technology
Ms. Antonia NANAU
President

CECIMO – European Association of the Machine Tool Industries
Mr. Filip GEERTS represented by Mr. Vincenzo RENDA
Director General

CEMBUREAU – The European Cement Association
Mr. Koen COPPENHOLLE
Chief Executive

EFCA - European Federation of Engineering Consultancy Associations
Mr. Kevin RUDDEN represented by Mr. Jan VAN DER PUTTEN
President

ENAEE – European Network for Accreditation of Engineering Education
Prof. Bernard REMAUD
President

EU STEM COALITION
Mrs. Beatrice BOOTS
Executive Director

EYE – European Young Engineers
Mr. Chris WATERS
Secretary General

KU LEUVEN - KATHOLIEKE UNIVERSITEIT LEUVEN
Prof. Dr. Ir. Bert LAUWERS
Decaan, Faculteit Industriële Ingenieurswetenschappen

SEFI – European Society for Engineering Education
Prof. Mike MURPHY
President

TECHNISCHE HOCHSCHULE GEORG AGRICOLA - Staatlich anerkannte Hochschule
der DMT-Gesellschaft für Lehre und Bildung (DMT-LB)
Prof. Dr. Jürgen KRETSCHMANN

AECEF – The Association of European Civil Engineering Faculties
Prof. Dr. Alfredo SOEIRO
Secretary General

_____

EUREL –Convention of National Associations of Electrical Engineers of Europe
Dr. Hans-Heinz ZIMMER
President

_____

IGIP – International Society for Engineering Pedagogy
Prof. Gabriele SCHACHINGER
General Secretary

_____

SEII – European Society for Engineers and Industrialists
Mr. Marc GOOSSENS
Secretary General

_____

MEA – Mechanical and Mechatronical Engineering Association –
Verein zur Förderung des MB am tgm
Prof. Gabriele SCHACHINGER
General Manager

_____

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Mr Peter VAN DER HIJDEN
Independent Expert

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FEANI

EUROPEAN FEDERATION OF ENGINEERS

*** 1951**

CENTRAL SECRETARIAT

Schuman Square 6,

1040 Brussels

http://www.feani.org

33 National Members (EHEA)

+/- 6 million engineers

KNOWLEDGE ALLIANCE

ENGINEERS FOR EUROPE

(E4E)

In partnership with :

1. Engineers Europe Monitor (EEM)

For a continuously updated source of information and inspiration for university-business interaction on engineering professionals

- **An online platform with : hardware infrastructure, software framework applications and a growing data content**
- **6 pilot countries (SE, IE, DE, FR, IT, PT)**
- **Surveys on : Students, Graduates, Active Engineers, Employers**

1. Engineers Europe Monitor (EEM)

For a reflection of engineering professionals inputs focusing on 4 aspects :

- **Personal background :** age, gender, educational attainment level of their parents
- **Initial and continuing education :** type and level of engineering studies, uptake and potential of continuing education
- **Career development and mobility :** professional trajectories, career time spent in other sectors or countries
- **Labor conditions** : employment status, salary levels, work life balance

1. Engineers Europe Monitor (EEM)

Visibility of the results

- **EEM News Flash : a bi-annual thematic outlook**
- **EEM Report : an annual in-depth coverage**
- **Growing media presence**
- **Short videos**

2. Engineers Europe Education Reform Accelerator (ERA)

To bridge the gap between engineering education and practice

- **Provide training institutes with the latest feedback from professional practice**
- **Ensure programs that are up to speed**
- **Help learners acquire and renew relevant future oriented competences**

2. Engineers Europe Education Reform Accelerator (ERA)

To help accelerate reform in engineering education

- **Launching of the Engineers Europe Skills Compass :**

  3 key dimensions : knowledge, skills, responsibility and autonomy

- **Fast feedback loops between education and practice :**

  - a permanent stream of engineering challenges

  - an online learning review

  - a tool for speed dating and twinning between educators and practitioners

2. Engineers Europe Education Reform Accelerator (ERA)

Outputs

- Upgrade and re-train to face the challenges of digitalization and artificial intelligence
- Keep track of trends combining scholarly analysis and grassroots experiences
- Help engineering education and practice reinforce and accelerate each other
- Bring learners up to speed with the latest developments in practice

3. Engineers Europe Career Development Services (CDS)

To ensure that engineering professions can put their competences at the service of society and innovation

- **A series of career development services in the engineering professions in industry and public service**
- **Increase enthusiasm for lifelong learning and open new career perspectives for engineering professionals**

3. Engineers Europe Career Development Services (CDS)

Engineers Europe Badges

- Acknowledge learning by engineering professionals independent of the educational setting
- Acknowledge extras brought by the candidates, recognized by employers and universities
- Combine self-assessment with peer-validation
- Engineers Europe : a facilitating role with its EEM platform and an Engineers Europe Badges Protocol

3. Engineers Europe Career Development Services (CDS)

Engineers Europe Expert Portal

- **Match supply and demand of qualified engineering professionals, project partners, funding opportunities, traineeships, coaching and mentorships**
- **Stimulate cross-fertilization for talent and expertise**
- **An asset for the labor market as well as for educational purposes (traineeships, internships, mentorships)**

E4E Knowledge Alliance

A unique position to cover both significant actors in academia, employer's associations and associations of engineering professionals

A constituency of millions of individuals active in the engineering professions

A wealth of experience and a huge potential for cross-fertilization largely untapped so far

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Mr Dirk BOCHAR
Secretary General, FEANI

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