



The EV Future – A Need for New Skills in the Automotive Industry



automechanika DUBAI + JEDDAH + RIYADH

Agenda

Presentations by:



STEVE NASH CEO The Institute of the Motor Industry (IMI)



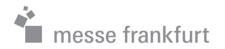
TOM DENTON Owner and Author Automotive Technology



KHALID ALWASSIA

Trainer Tiqani Management Consultancy

Q&A Session



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- Replay will be available on: www.automechanikaDubai.com/Webinars



INSTITUTE OF THE MOTOR INDUSTRY Driving the industry since 1920

A need for new skills in the automotive industry

Steve Nash FIMI CEO

Transition to a Mobility Sector



Autonomous

Today ADAS

Tomorrow autonomous machines



Connected

Vehicle to everything (V2X) Cybersecurity Personal data



Mobility Service

New ways of purchasing mobility

Transition to new retail & business models



Electric

Electric powertrain Battery technology Hydrogen fuel cell

Focus on Electrification

Across all vehicle types

Emerging technologies













Poll question:

Do you acknowledge the potential health & safety risks for those working on the high voltage systems of electrified vehicles?

Yes/No





What the research tells us about the pace of electrification

- Volkswagen expects R&D expenditures of over € 30 billion and aims to have 22 million electric vehicles on the streets by 2030
- BMW plans to launch at least 25 electric vehicle models before 2025
- Bloomberg suggest 60 Million EVs by 2040





Poll question:

In your market are individuals who work on electrified vehicles regulated in any way (e.g. minimum regulatory standards, required qualifications)?

Yes/No



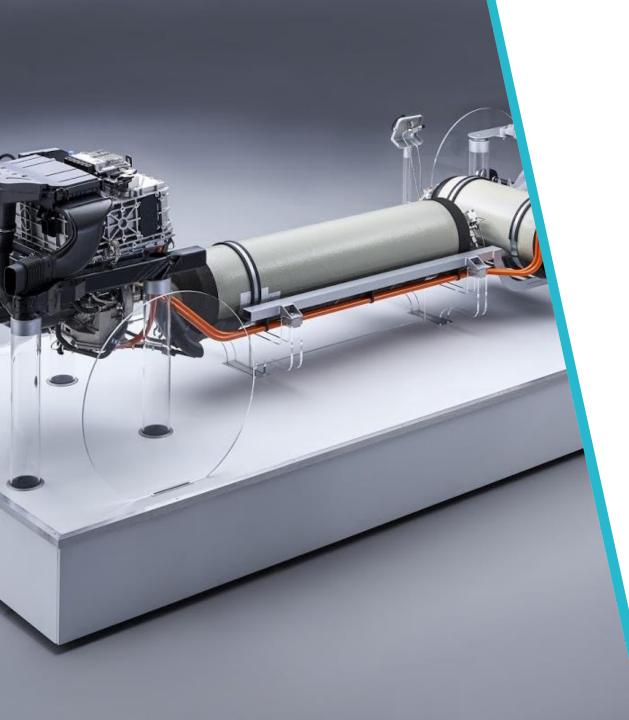
Cybersecurity - Aftermarket

- Cybersecurity is becoming a new dimension of quality for automobiles
- Automotive industry is rethinking cybersecurity along the entire value chain
- Managing cyber risk throughout the vehicle lifecycle will require new working practices
 - For example, in the aftermarket:
 - Code of practice



Cybersecurity in automotive, Advanced Industries – Automotive & Assembly, March 2020, McKinsey & Company:





Hydrogen

BMW have made a commitment to hydrogen (as have others)

All the same issues as with EVs but additional areas where safe practices are necessary



Poll question:

What is the level of trained and/or qualified EV Technicians in your market?:

- Very Low
- Low
- Modest
- Adequate
- High



Professional Register TechSafe™ Certification & Retention

Achieve EV or other appropriate qualification or certification (level 2, 3 or 4)

IMI Membership and Professional Registration

Complete general CPD <u>and</u> sector-agreed CPD Retain Professional Registration and TechSafe



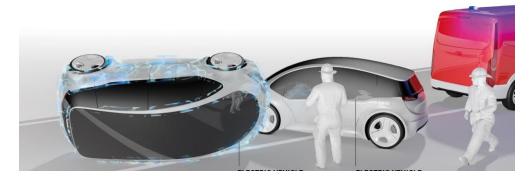






EXPLOSIONS THAT SAVE LIVES

Bosch technology reliably switches off the current flow in electric vehicles involved in an accident













Poll question:

Do you currently have access to:

- Suitable EV training? Yes/No
- Appropriate EV qualifications? Yes/No





Next steps

Determine what other areas should be included as TechSafe:

- ADAS (different levels)
- Automated driving
- Hydrogen
- Cybersecurity

Searchable international public database What the industry says: <u>https://vimeo.com/320271756</u>

The EV Future A Need for New Skills in the Automotive Industry

Webinar Training Series By Tiqani Inc.

Welcome

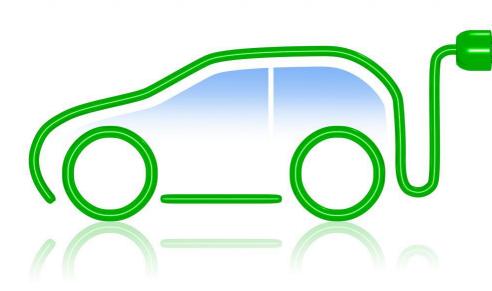


Khaled Alwassia FIMI MBA:

- Active in the automotive industry since 1983 starting as a BMW Apprentice.
- Setablished an IMI approved BMW and JLR technicians Apprenticeship program in KSA.
- Represents Tiqani since 2016 in Saudi Arabia.
- Management Trainer, Executive & Team Coach

Poll question 1:

What part of the automotive industry do you represent?

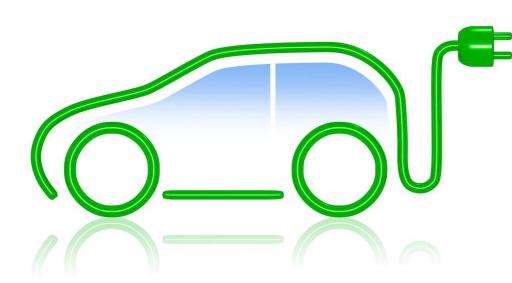


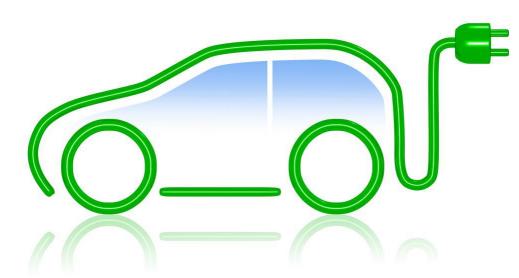
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What part of the automotive industry do you represent?

Poll question 2:

Which offers of Hybrid or Electric Car Training have you received or are aware of?





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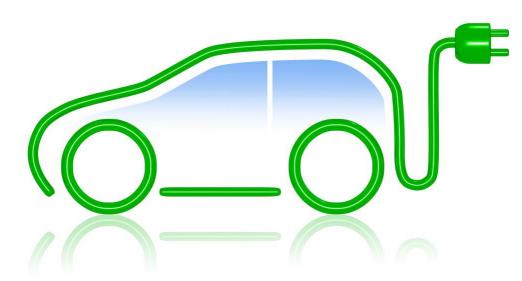
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Poll question 2:

Which offers of Hybrid or Electric Car Training have you received or are aware of?

Poll question 3:

Which of those offers have your or your team attended?



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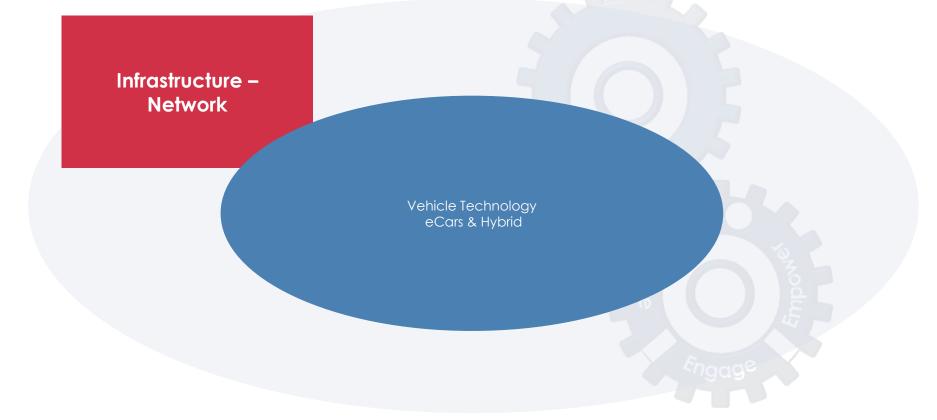
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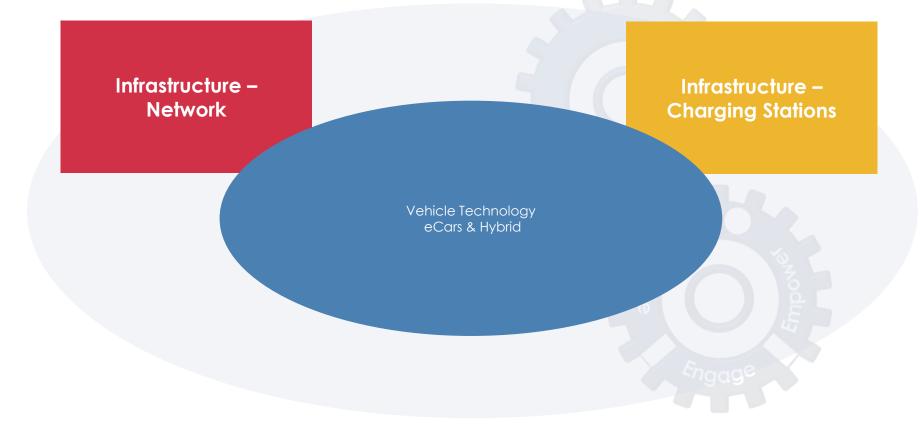
Poll question 4:

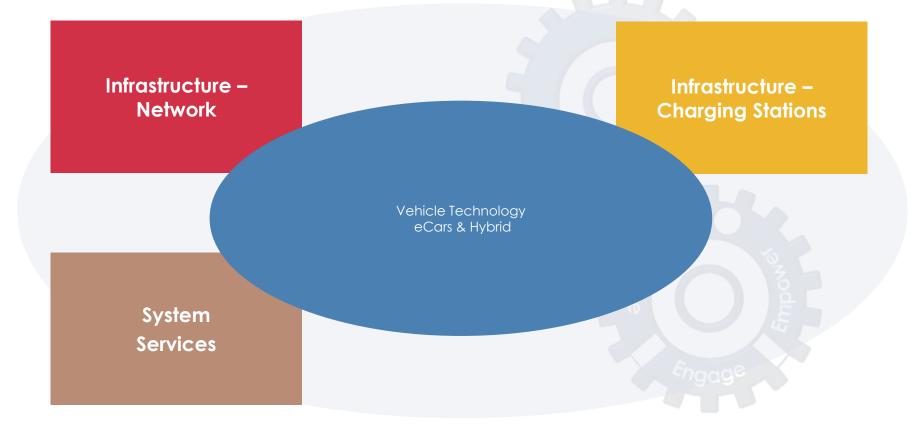
How confident are about your organization's readiness to service Hybrid & EV customer vehicles?

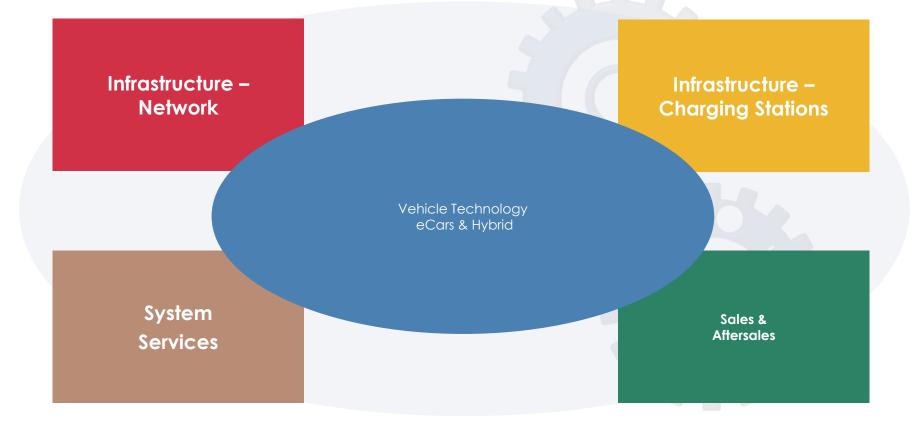
Vehicle Technology eCars & Hybrid

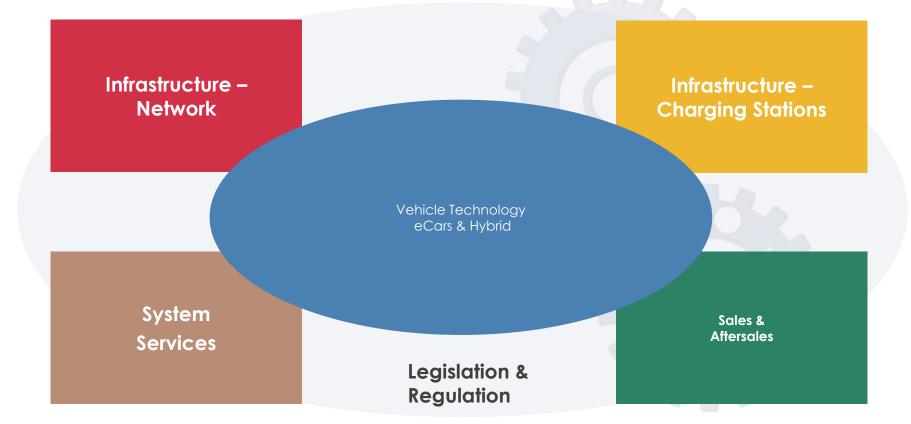
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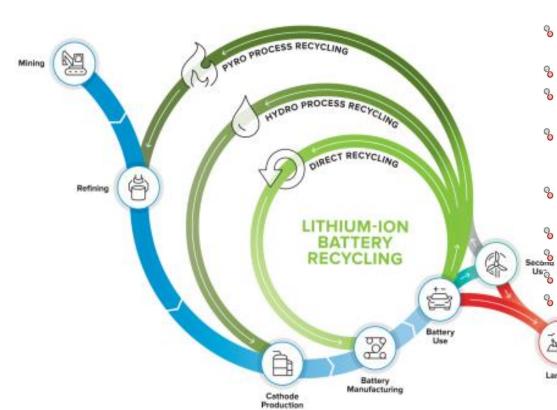


EV Announcement Middle East



- Lucid Motors KSA investment 1B \$.
- Masdar & Hafilat First Electric bus on Abu Dhabi Roads 2019
- DEWA installed 240 Charging stations across Dubai
- RTA UAE Installs 60m of power-charging grid
- Dubai Police gets GM Bolt EV
- Arabian Taxi gets 50 Toyota Prius
- Shift Rental Car receives 5 Renault ZOE 40 LR
- RTA purchases 200 Tesla & adding 125
- Self Drive launches 5 AED/hour electric cars
- GREENPARKING EV-NETWORK
- DEWA launches App to locate EV charging stations
- Nissan & KSA's SEC
- MG Motor launch MG ZS EV in KSA

EV & Regional Governments Middle East



- 8 **UAE** System for Electric Vehicles announced in 2017.
- GCC Standards organisation 0
- UAE requires registered Agents for EV 0 Cars
- Oman's Authority for Electricity 8 Regulation (AER) plans to prepare a regulatory framework 2018
- KSA Dealer need authorised battery 0 recycling partner 2020.
- Saudi Council of Engineers Licence 8
 - **TVTC Training Programs Update**
 - **EV** Purchase Incentives

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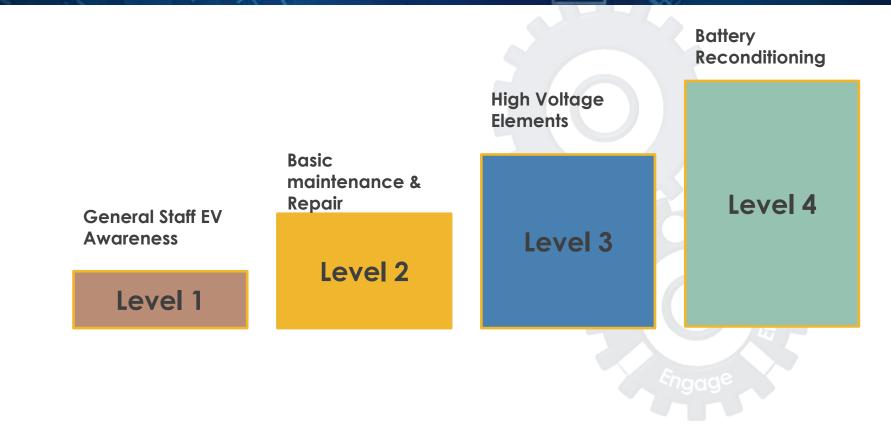
Jordan has a developed Hybrid market with some EVs

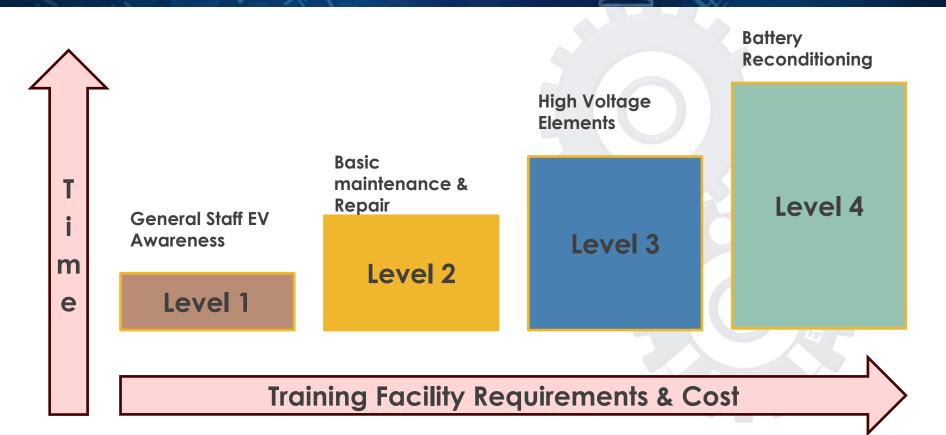
EV & Hybrid Training Bus, Truck, VAN

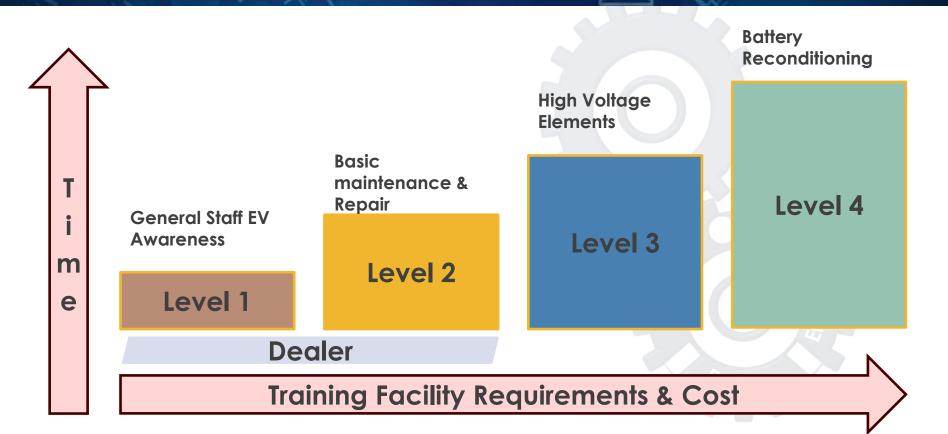


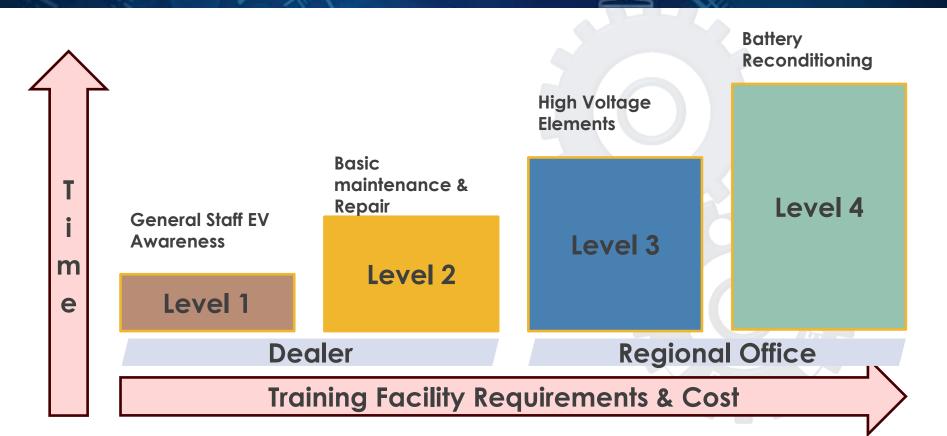


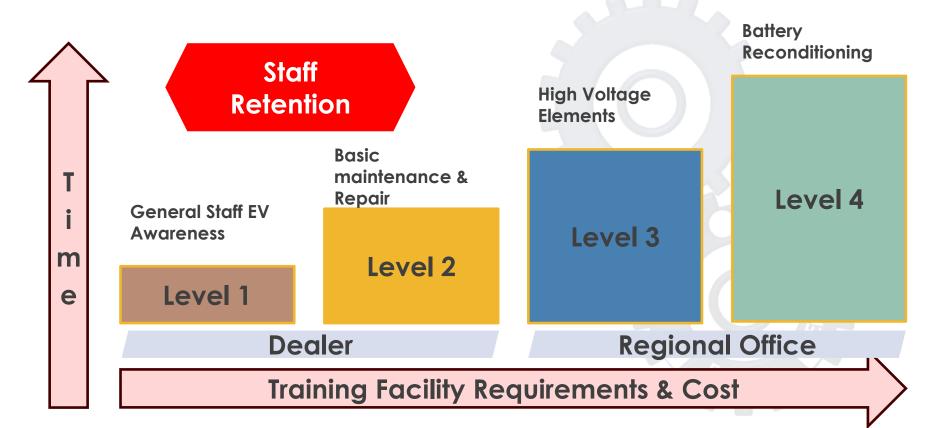
- Leading Buss & Truck VAN Brand absent from Middle East EV market
- Masdar & Hafilat UAE
- Bee'ah, the UAE-based environmental energy and waste management company, has ordered 50 Tesla Semi trucks.
- BHL Express customize Volkswagen e-Golf electric car for document delivery and collection.











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Training delivery F2F & Virtual

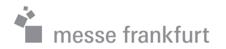
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Marshall Goldsmith Stakeholder Centered Coaching





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