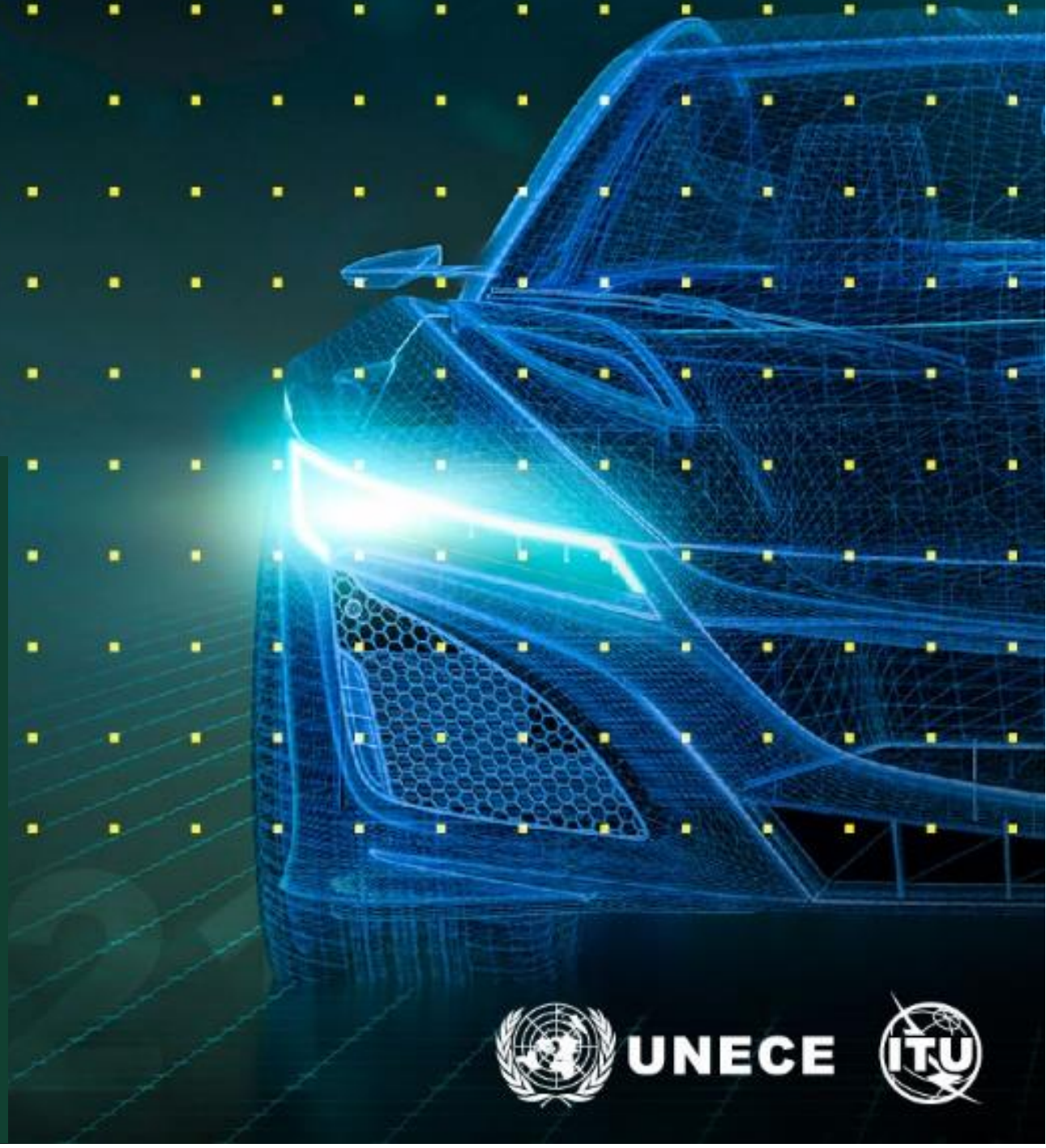
Future Networked Car Symposium



Session Two

Artificial General Intelligence Applied to Vehicle Safety, Services and Transport Management

Current Status and Future Directions

23 March 2022

13.00 – 16.00 European Central Time

UNECE ITU

Artificial Intelligence (AI) leverages computers and machines to mimic the problem-solving and decision-making capabilities of the human mind. What we have today is **'Weak AI'**, systems that are trained and focused to perform specific tasks, such as playing chess, recognizing a deer crossing a road or a stop sign.

Artificial General Intelligence (AGI) is the hypothetical ability of an intelligent agent to understand and learn any intellectual task that a human can. It possesses the ability to analyze a situation on its own and take a calculative decision without being programmed in advance.

AGI, also called **'Strong AI'**, has six major branches: machine learning, neural network, robotics, expert systems, fuzzy logic and natural language processing. Attempts are being made to apply it to many application areas, including **driverless vehicle operation**, vehicle design and manufacturing, road maintenance, traffic flow management, and passenger experience.

This panel will present and discuss views on the current status of Artificial Intelligence in vehicle-related applications, and the different scenarios and timelines for the implementation of Strong AI, referred to as Artificial General Intelligence, or AGI, for driverless vehicles with no human involvement.

Our objectives for this session are:

- **For those attending who will work on policies and standards related to driverless vehicles, to further your understanding of the differences between simple AI and strong artificial general intelligence in order to be clear when defining strategies and work programs for highly automated and driverless vehicles.**

- **For those attending who will develop solutions for highly automated and driverless vehicles, to further your appreciation of the need to be clear about the level of intelligence you are trying to attain, especially if you have as a goal for the vehicle to be driven without human involvement.**

Participants

Michael L. Sena

Moderator

Consultant in Connected Vehicles and Editor of THE DISPATCHER

Bryan Reimer, Ph.D

Keynote Speaker

Research Scientist, MIT AgeLab

Bryn Balcombe

Founder, Autonomous Drivers Alliance (ADA)

Alexandra Mueller, Ph.D

Research Scientist, Insurance Institute for Highway Safety

Wen Xu

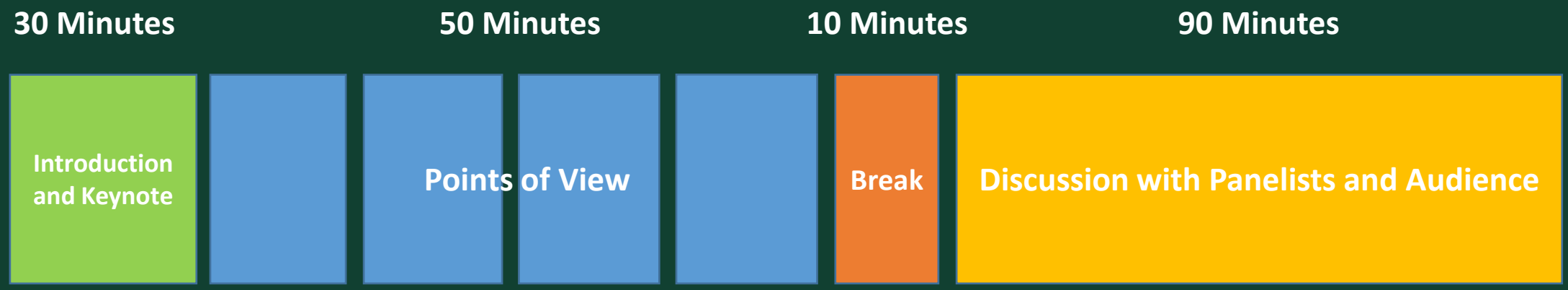
Principal Engineer, AB Volvo

Ramesh S., Ph.D

Senior Tech Fellow - General Motors R&D

Session Two: AGI Applied to Vehicle Safety, Services and Transport Management

Session Schedule



Session Two: AGI Applied to Vehicle Safety, Services and Transport Management