



ARTIFICIAL INTELLIGENCE (AI) GLOSSARY

ANI – Artificial Narrow Intelligence

 ANI creates a "decision support system" based on pre-set parameters with the majority of <u>decisions remaining in human hands.</u>

AGI – Artificial General Intelligence

• AGI achieves complex goals in difficult environments with limited computational resources, has the ability to transfer learning and <u>make independent decisions</u>.

Machine Learning

• Machine Learning algorithms look for patterns in data and make or suggest better decisions for the future based on human provided examples and guidelines.

Deep Learning

• Deep Learning uses unsupervised algorithms that learn from their own analysis and without human pre-set parameters.



TECHNOLOGY RISKS:

- Rapid adoption of Machine Learning and Business AI as part of workplace automation;
- The loss of operational transparency with the expansive use of Narrow Artificial Intelligence to perform operational review functions;
- Movement to unsupervised Deep Learning and autonomous determinations in transactional models and activities; and,
- Movement to Perception AI in some HR and other "intake and evaluation" functions.



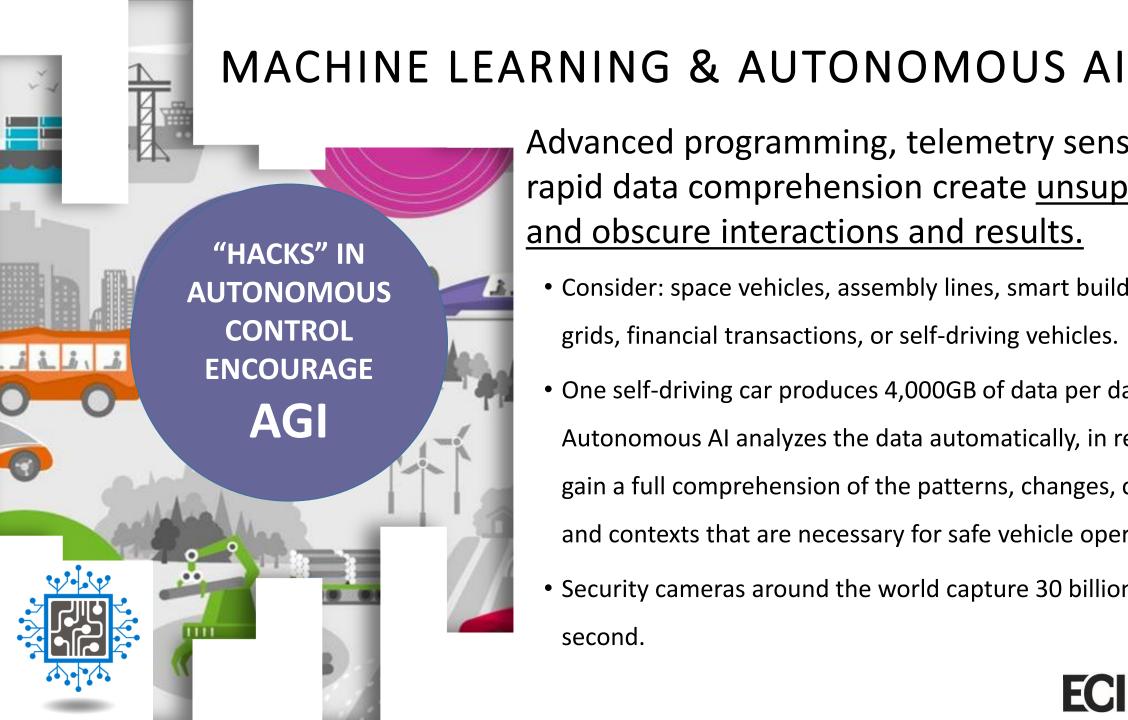
BUSINESS AI

AI is altering decision making within organizations and improving efficiency.

These developments raise important policy, regulatory, audit and ethical issues:

- Unintentional programming or "learned" biases based on evolving logic;
- Fairness;
- Safety;
- Transparency;
- Accountability; and,
- Intentional programming.





Advanced programming, telemetry sensors and rapid data comprehension create unsupervised and obscure interactions and results.

- Consider: space vehicles, assembly lines, smart buildings, energy grids, financial transactions, or self-driving vehicles.
 - One self-driving car produces 4,000GB of data per day.

Autonomous AI analyzes the data automatically, in real time to gain a full comprehension of the patterns, changes, concepts and contexts that are necessary for safe vehicle operation.

 Security cameras around the world capture 30 billion images a second.



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MARINE TRANSPORT AND UNMANNED AIR, WATER, LAND AND SPACE SYSTEMS PORT OPERATIONS Fluent door-to-door supply Novel solutions for asset chain enabled by monitoring, logistics and autonomous operation --safety & security and digitalization **INTER-URBAN** h h h h h h TRANSPORT Safe and fluent traffic with automated driving of commercial vehicles **URBAN TRANSPORT** on highways Quick and easy-to-use door-to-door mobility enabled by automated chain of different means of transportation MOBILE MACHINERY Sustainable productivity for TITLE harvesting of natural resources through remote controlled and

RURAL TRANSPORT

Automated and combined people and goods transport solutions

autonomous systems



PERCEPTION AI

Perception AI is able to <u>interpret</u>, reason, <u>consider and transform sensory data</u>.

- Online activities, personal preferences (habits), and IoT integration support Perception AI.
 - More like this, Restaurants Tips, Netflix for YOU,
- Smart home "conveniences" and targeted advertising enhance the acceptance of Perception AI.
 - Automated shopping lists for food based on usage, season, existing inventory, preferences and price.

