



AI Snapshot

NATIONAL CONFERENCE OF STATE LEGISLATURES

SEPTEMBER 29, 2023

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AI Across Industries

AI ACROSS SECTORS

AI systems can be used in a range of industry-specific scenarios, many of which help companies improve existing products and services.



Transportation

AI systems can improve the efficiency of airlines, by helping to pinpoint causes of any slowdowns in the process of cleaning, refueling, and reloading an airplane. Detecting these delays early helps the airline mitigate their effect on passengers.



Manufacturing

AI design tools can optimize manufacturing processes, to reduce waste and improve products. This is true from early phases, where AI can help design and test new prototypes, to factory floors where AI systems can identify maintenance and quality-control issues.



Agriculture

Farmers use AI systems to analyze large volumes of weather and crop information, helping them monitor their crops, increase yields, and adjust to rain and drought conditions.



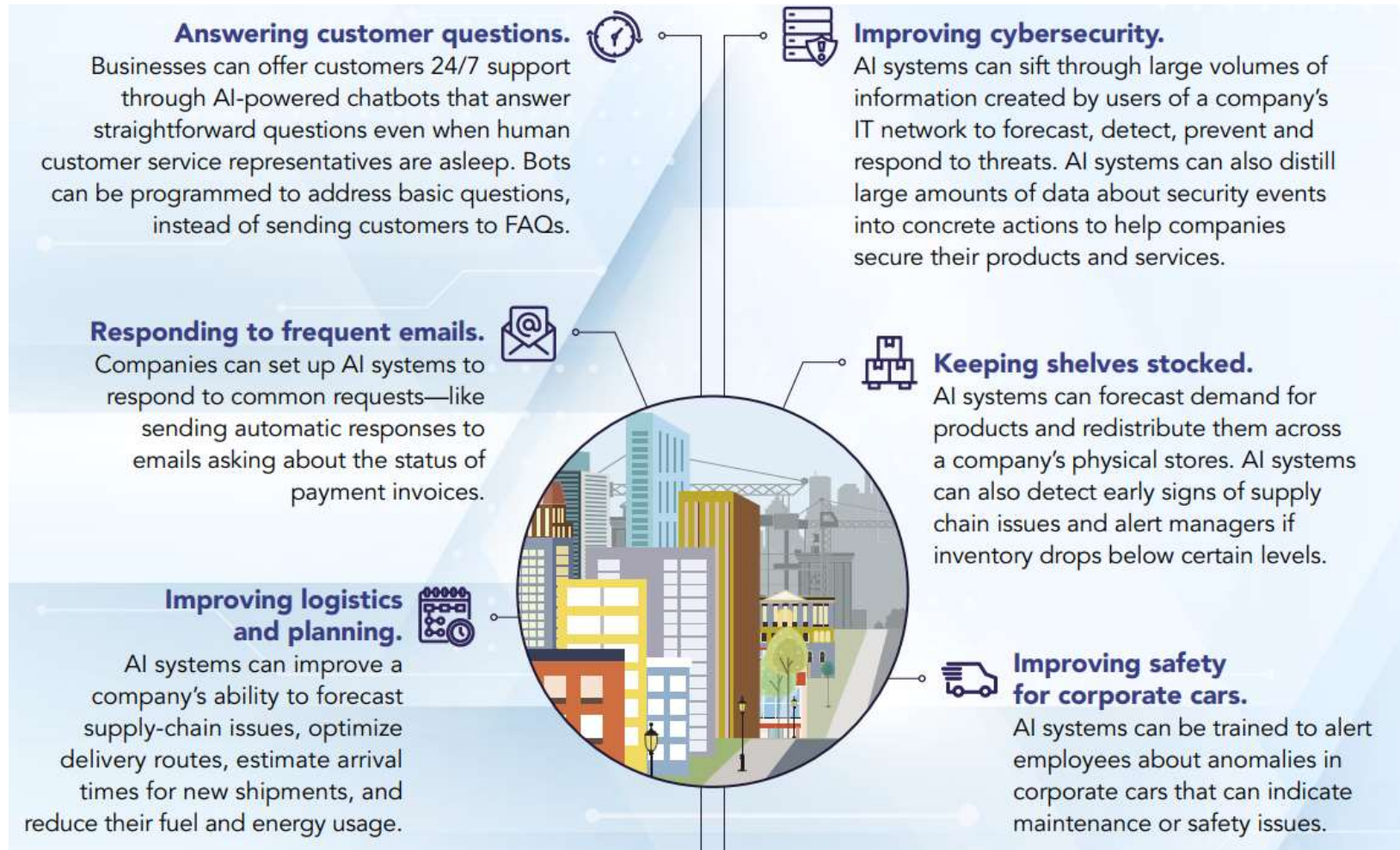
Construction

Companies use AI to streamline the process of designing and constructing new buildings. They can also create “digital twins” of real-life cities to understand environmental and other impacts of a proposed design.

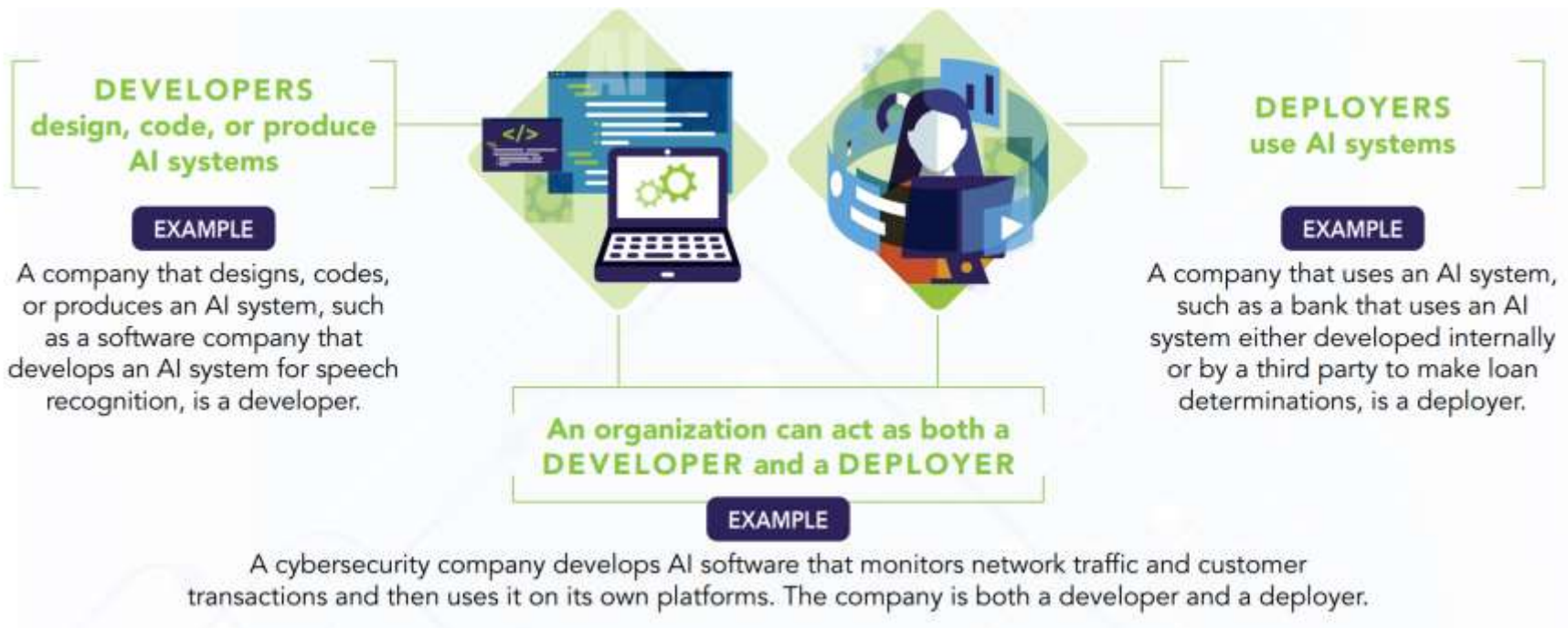
Everyday AI for Consumers



Everyday AI for Businesses



Developers and Deployers: Distinct Roles



Risk Management Programs



Impact Assessments for High-Risk AI

Why Conduct an Impact Assessment?

Impact assessments have three purposes:



IDENTIFYING
potential risks that an
AI system may pose.



QUANTIFYING
the degree of potential
harms the system
could generate.



DOCUMENTING
steps taken to
mitigate those risks.

Impact Assessments: Leveraging Privacy

HOW IMPACT ASSESSMENTS ARE USED IN PRIVACY AND DATA PROTECTION

Impact assessments are already used in a range of other fields, including privacy and data protection. A broad range of global and state privacy laws already require organizations to conduct impact assessments, and those processes can be leveraged to conduct AI-focused impact assessments. Impact assessments are an important and proven accountability tool to identify and mitigate risks, which can promote the responsible development and use of high-risk AI systems.



United States: At least 10 state privacy laws require data controllers to conduct impact assessments for specific types of data processing, such as processing involving sensitive personal data, targeted advertising, sale of personal data, and certain types of profiling.



European Union: Under the General Data Protection Regulation, controllers must conduct data protection impact assessments for certain activities, including those “likely to result in a high risk to the rights and freedoms of natural persons.”



Worldwide: Privacy and data protection laws worldwide have also focused on the importance of impact assessments as a tool for improving accountability, ranging from requirements in Brazil, Korea, Singapore, and the UK, to guidance in Canada, Australia, and beyond.

The
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Questions?

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