

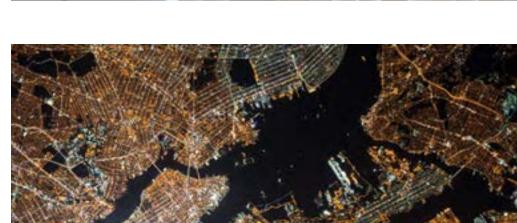
Artificial Intelligence, Real Responsibility

Al is playing an expanding role in industries with high value assets and great human impact such as energy, finance, and healthcare. In these high-risk industries, AI systems need to explain the reasoning behind their recommendations. Artificial Intelligence must be smart enough to explain how it thinks so you can make more informed and accurate decisions. Enterprises are increasingly demanding explainable AI.



Visable

Explainable AI delivers insight into the reasoning and showing evidence, risk, and confidence.



Understandable Explainable AI evidence-based recommendations are designed in

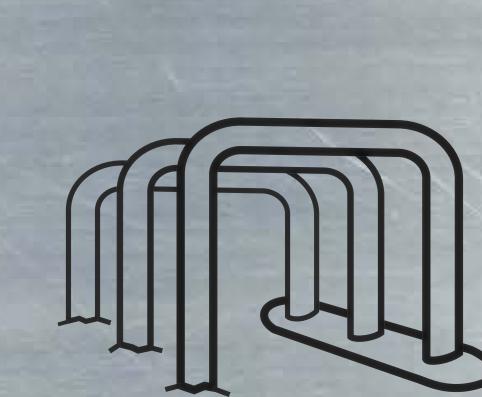
clear, natural language. Teachable



Explainable AI can query the system and is designed to be

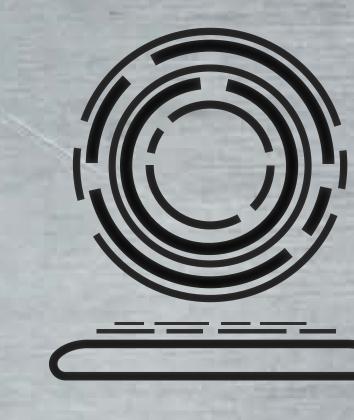
trainable and learn on the fly, autonomously.

The Anatomy of XAI



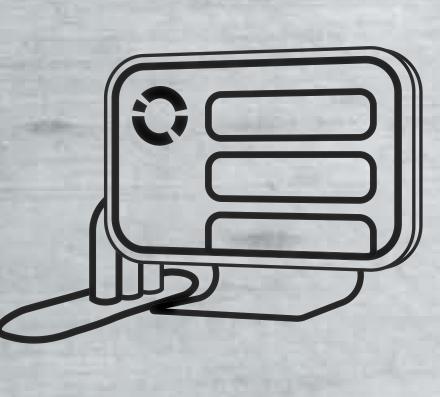
Data Harvesting

Historical, real-time, sensor, and performance data is gathered and flows into the engine.



Artificial Intelligence Engine

The engine processes data and is further educated and trained from the knowledge base and user inputs.



Interface

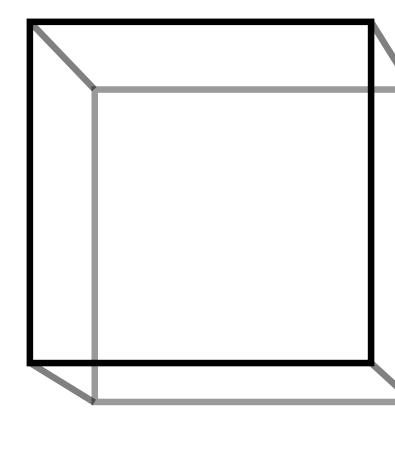
Recommendations and an evidence-based audit trail is provided to the user.

Complex Systems Need Detailed Answers



Black Box Al

Black box AI is the conventional approach to AI such as machine learning, deep learning, and neural networks that cannot explain how they arrive at their conclusions.



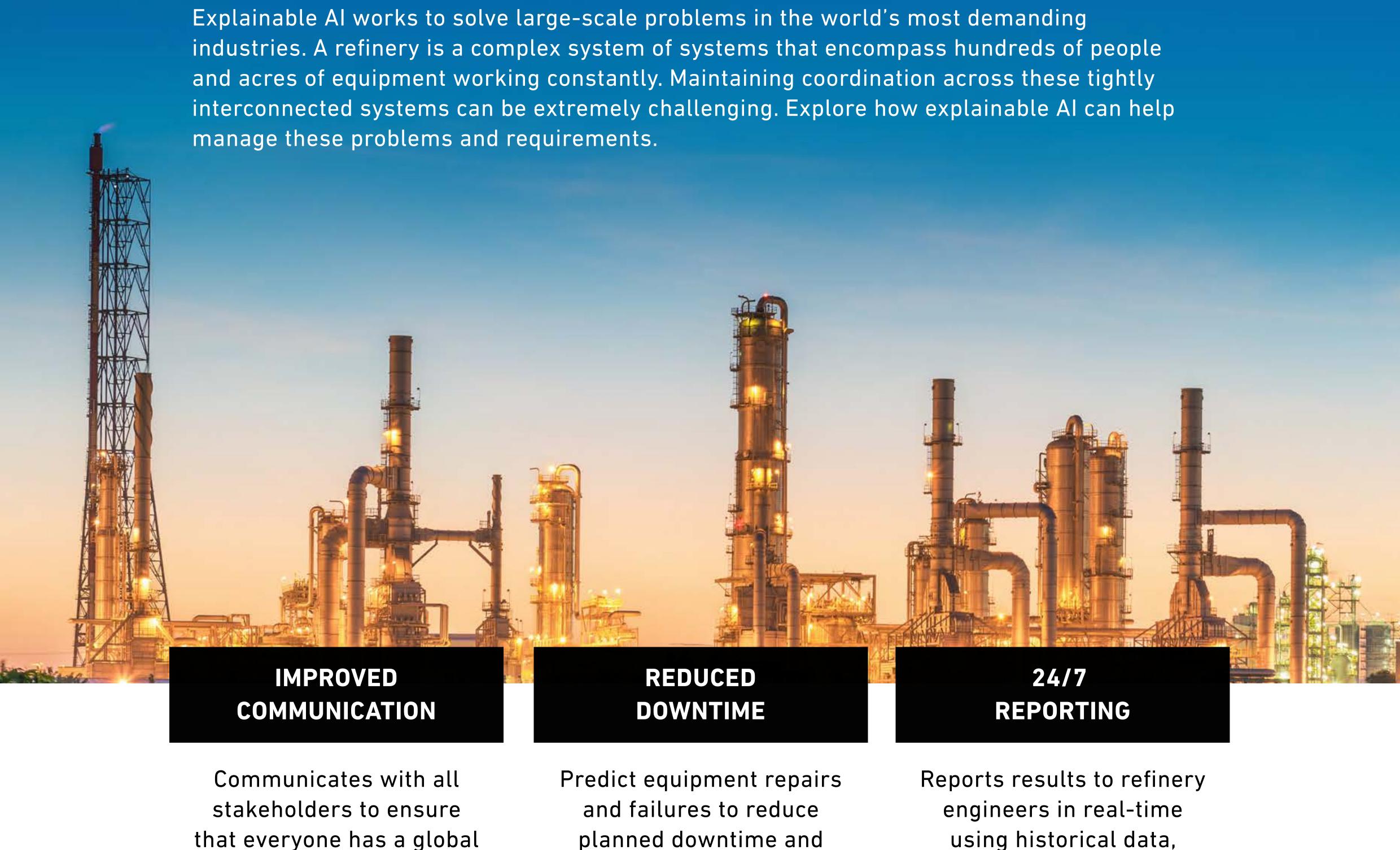
Glass Box Al Glass Box AI is a result of cognitive AI which delivers clear

explanations for its recommendations with reasoning and evidence, including risk, confidence, and uncertainty.

high-risk/high-value industries, an explanation of the underlying reasoning is critical for decision makers. To make better decisions, your AI system must be smart enough to explain how it thinks.

When "black box" Al systems produce an answer, they can't tell the human end-user how or

why they reach their recommendations. In simple terms, they can't explain their reasoning. In

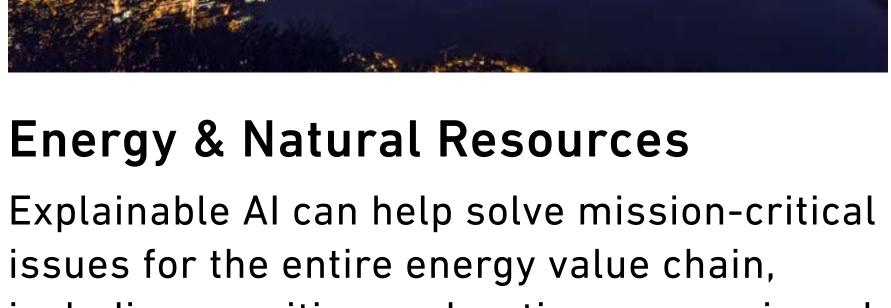


perspective on the impact of their actions.

prevent unplanned downtime. Explainable Al for Demanding Industries

using historical data, real-time sensor data, and

human knowledge.



including cognitive exploration, reservoir and refinery management, well health, and

power generation.

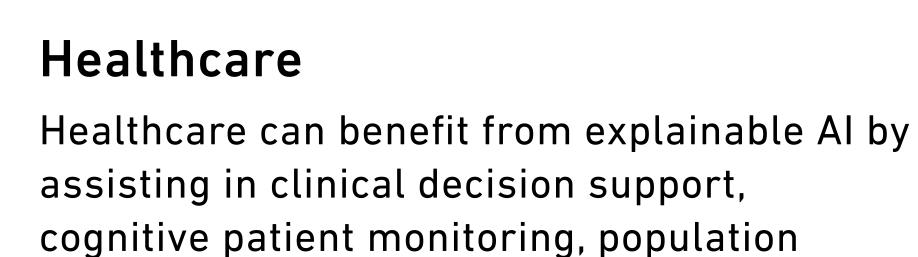


and prognostic, situational awareness, automotive safety.

Financial institutions of any size can utilize

explainable AI to optimize processes of

commodity trading, propensity scoring,



cycle management.

health management, and revenue

credit and lending, risk assessment, investment management.

Finance

as amplify the human talent. It will serve as a transparent partner that will complement and support them to make more informed, consistent, and accurate decisions. By working together, people and AI can make better decisions by enhancing each other's

The Human Perspective

complementary strengths. B E Y O N D L I M I T S

Beyond Limits is a full-stack Artificial Intelligence engineering company creating advanced

software solutions that go beyond conventional AI. Beyond Limits solves tough, complex,

mission-critical business problems for industries that matter. Beyond Limits cognitive Al

Explainable AI creates a collaboration between human and machine to help magnify as well

- technology goes beyond conventional AI and is always "explainable". Our systems utilize a hybrid of conventional numeric and higher order symbolic AI techniques to deliver cognitive
- reasoning and intelligence that emulates human intuition. > Learn About Explainable AI and Cognitive AI at > www.beyond.ai