

CGDs and Artificial Intelligence

Leveraging Data

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Table of contents

01 **Pietro Fiorentini**

Introduction

02 **What is AI**

What

Why

How

03 **AI & CGD**

Benefits

Use cases

Predictive AI

What is Artificial Intelligence

AI - it can do things that are considered "smart." AI technology can process large amounts of data in ways, unlike humans.

What – Build AI models using machine learning algorithms and deep learning neural networks to draw business insights.

Why - It enhances the speed, precision, and effectiveness of human efforts.

How – Operation efficiency, Equipment maintenance and improved design quality, Revenue generation through Data acquisition and transparent availability through secured Blockchain mechanism

How CGDs can benefit

Demand Forecasting

Predictive Maintenance

Tariff fluctuations

Transparency to consumer

AI enhances operational efficiency through *predictive maintenance*, *optimized supply chains*, and accurate *demand forecasting*, leading to reduced downtime and *improved decision-making*.

Use cases



- **Smart Metering** Data analysis understanding consumption patterns, resolving gas production and shortage issues

- **Prepaid smart meters'** predictive billing patterns enhancing effectiveness of gas network flow



- **Predictive maintenance** leveraging leak detection, gas pressure variations and temperature compensation

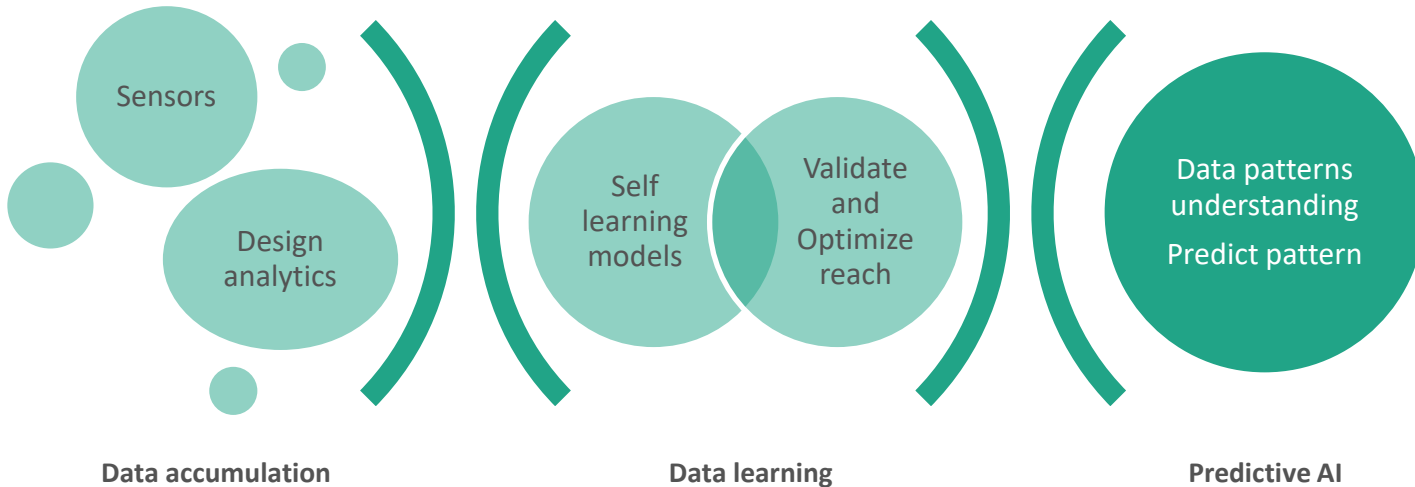
Unstructured data

The upstream oil and gas industry generates vast amounts of data through regular reports and analyses

Untapped data

However, this valuable remains largely unused, hindering the industry's ability to automate insight generation and apply it to a wide variety of services

Data to Prediction?



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