



Nearly **3 in 4**  
Energy & Utilities organisations  
say AI is a strategic priority, but...



**A**



Every **1 in 2** of AI POCs  
don't make it to production.

**B**



Enterprises take **>7 months** to  
convert AI initiatives from prototype  
to production stage.

**C**



Only **2%** have successfully been able to do it!.

**We can help you buck the trend!**

There are **5 key** impediments for enterprise-level AI adoption in the Energy & Utilities sector:



## AI Awareness & Understanding

- ✓ Lack of AI literacy hinders adoption of multiple AI initiatives.
- ✓ There is a lack of depth in training & understanding the value that AI can create for grid optimization, smart metering, and customer engagement..



## AI Acceptability

- ✓ Impact of AI understood by IT personnel, but no buy-in from functional teams.
- ✓ Lack of transparency, unreliability, limited reasoning capabilities in critical infrastructure applications.



## Organisational Capabilities

- ✓ Lack of skillset & resources to leverage AI methods.
- ✓ AI adoption requires defined roles based on specialisation & accountability.
- ✓ Inability to implement AI at scale after successful pilot stage.
- ✓ High cost & energy consumption of AI models raise affordability & sustainability concerns for large-scale deployments.



## Technical Capabilities

- ✓ Inability to leverage advanced analytics & AI due to legacy systems, poor data quality, lack of well-defined frameworks for real-time data processing.
- ✓ Lack of quality, volume, & suitability of data for training energy consumption prediction or grid management models.
- ✓ Multiple AI tools and platforms being used which don't have latest features.



## AI, Security, & Trust Ethics

- ✓ Lack of AI governance, risk management, compliance with industry-specific regulations.
- ✓ Security, ethical model behaviors, model autonomy & change management practices aren't addressed effectively in sensitive energy data environments.

**"AI remains challenging for many organisations as it take a long time to go from prototype to production. Estimating and demonstrating business value from AI projects remains as a major barrier to AI implementation"**

# Maximising real time insights to drive revenue alongside better CX

Unlock your enterprise's potential with our Pro bono, no-obligation **AI Readiness Assessment**, designed to identify key challenges and provide actionable recommendations for a successful AI adoption in the context of real-time insights for revenue growth and enhanced customer experience.

## 1 Why is this assessment key for your enterprise's AI strategy?

Identify barriers that are impeding the effective adoption of AI and uncover tailored recommendations to navigate challenges and drive sustained success in your AI journey.

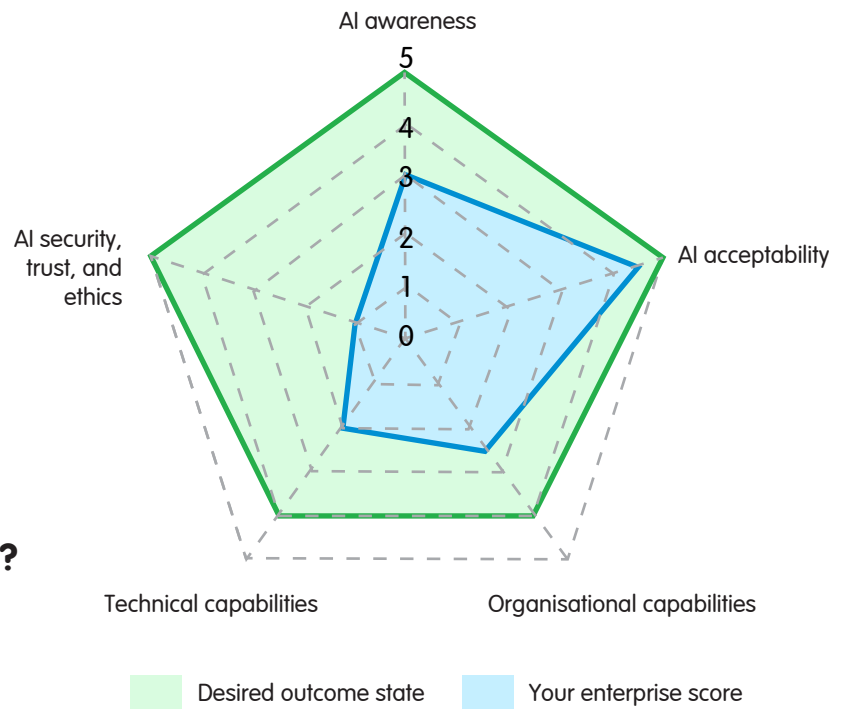
## 2 How does it work?

We'll make a comprehensive assessment of your enterprise's AI readiness based on the 5 key impediments and determine where you stand in comparison to the desired outcome state.

## 3 What will the final results reveal?

Your enterprise score on all the 5 impediments, the roadblocks, and strategic recommendations.

Here's a sample output



## Gaps

The enterprise lacks a depth in understanding how and where AI can create maximum impact on energy efficiency and customer satisfaction.

The enterprise's stakeholders are willing to embrace & experiment with AI but there is a lack of confidence on decision making abilities of different AI models.

Insufficient AI expertise & skills within the enterprise to understand how to build, deploy, maintain AI models.

The enterprise has inadequate data infrastructure and lacks the right tools & platform capabilities to implement AI at scale.

Due to the absence of structured AI governance, enterprise is prone to security risks, inconsistent performance of AI models, and bias & fairness concerns that can hinder reputation.

## Recommendations

Offer specialised training & workshops to build foundational knowledge on how & where AI would deliver value in the Energy & Utilities landscape.

Demonstrate how AI adoption is closely aligned with enterprise's business goals. Ensure that AI systems are transparent, especially in how they make decisions to instil trust among stakeholders.

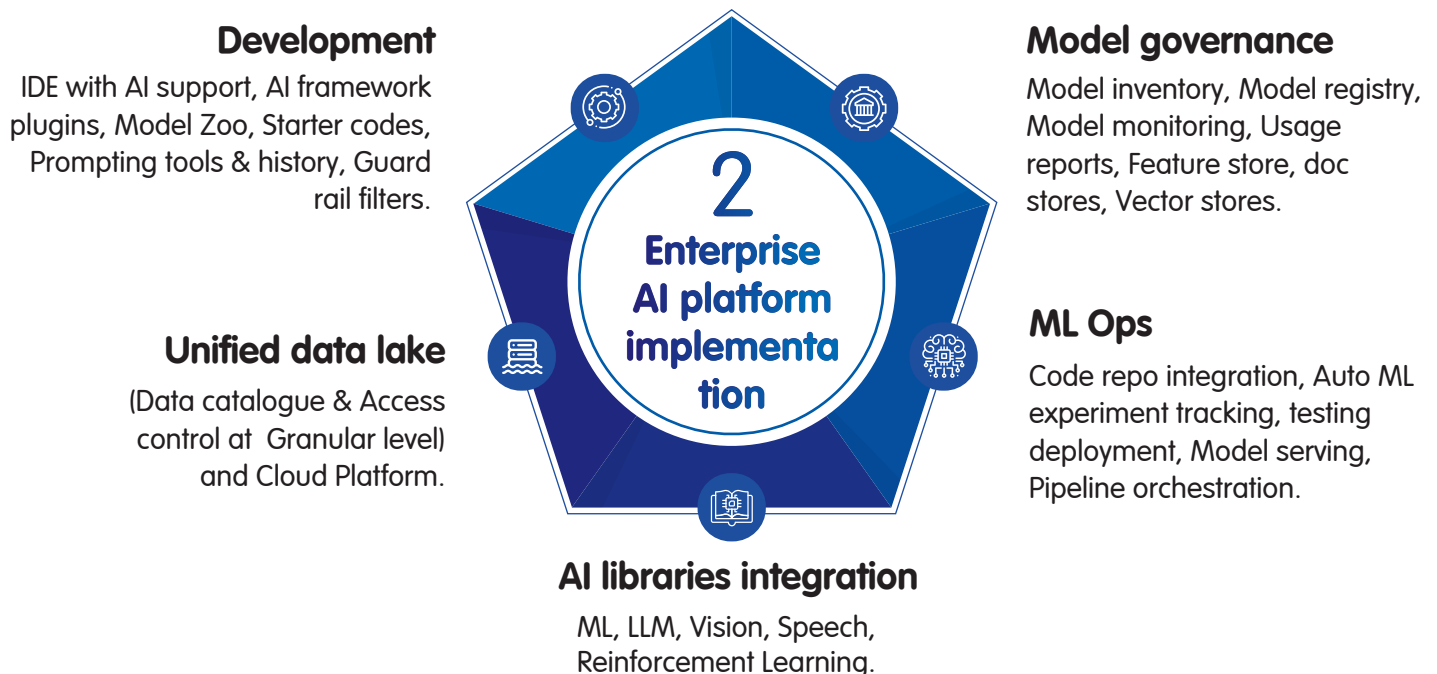
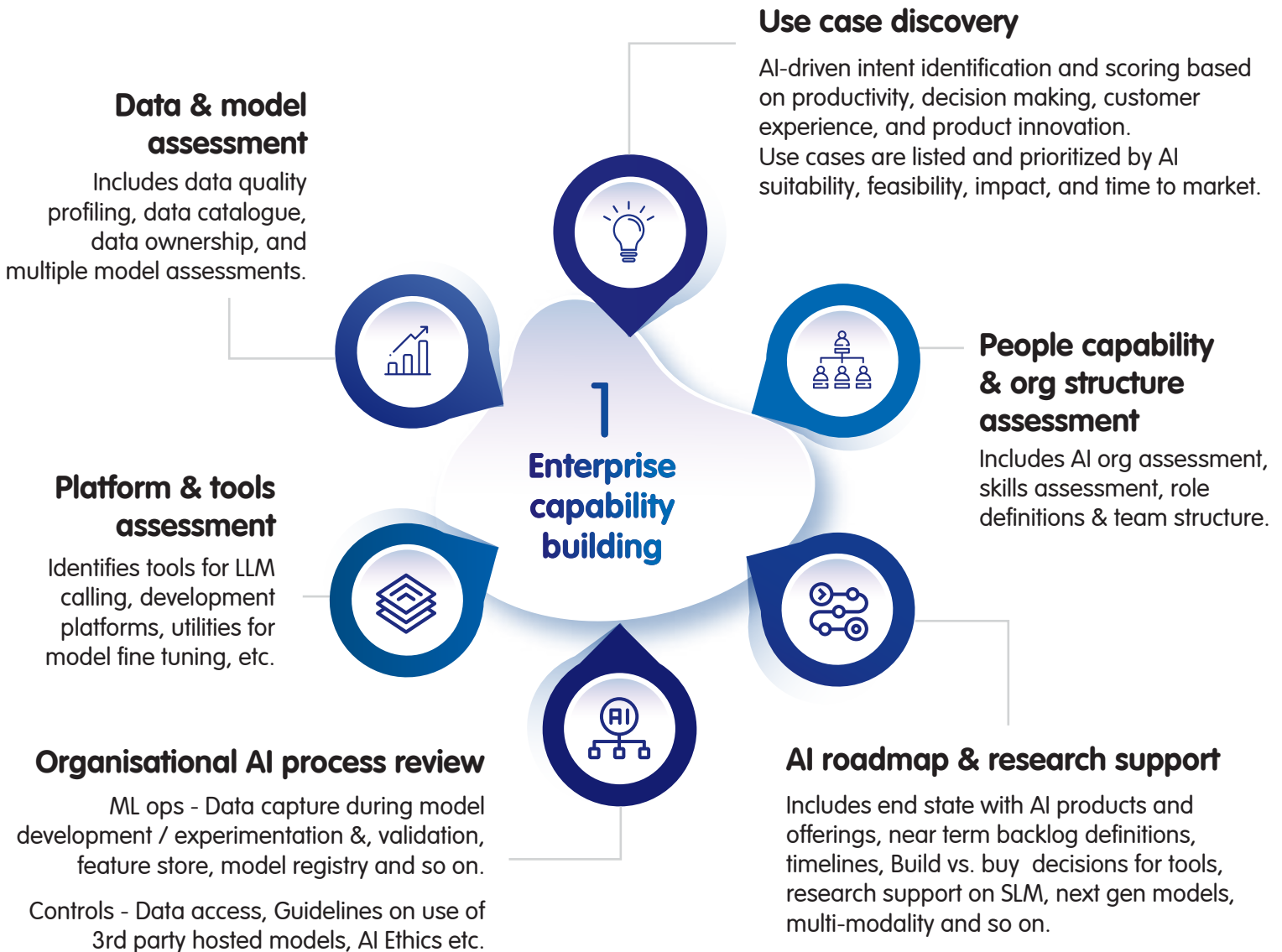
Re-define roles & build accountability for AI adoption, upskill and re-skill workforce, and encourage experimentation in AI.

Bridge technology gaps by partnering with specialised vendors who can establish robust infrastructure for data and seamlessly integrate tools & platforms into existing systems for AI adoption.

Plan and implement strong AI security measures, build ethical AI frameworks, and address AI bias & fairness through strict auditing.

# Getting your AI projects off the ground to transform organisational efficiency and consumer outcomes

Our comprehensive AI services are designed to help businesses like yours stay competitive in today's data-driven world, with tailored solutions that deliver measurable outcomes for the Energy & Utilities sector.



### 3 Model deployment, development & support

A



#### Support

Includes setting up alerts & thresholds (model performance & stability), and model retraining.

B



#### Preparation

**Ideation:** Identify data sources, review compliance, conduct user research, and finalize features with stakeholders.

C



#### Development

**Experimentation:** Data analysis, feature engineering, model testing, tuning

**Build:** Data cleanup, pipeline development, monitoring setup

**Validation:** Precision testing, overfit check, model comparison

C



#### Deployment

**Pipeline:** Production ready model pipeline

**Test Instance:** Feature store integration, endpoint setup, non-functional testing

**Production:** Model registration and deployment

### To drive operational efficiency

Solutions including multi layout document parsing, AI agents, synthetic data generation & so on.

#### To enhance customer experience

Recommendation engine.

#### To improve decision making

PII data masking, Accounting data classification, CV shortlisting.

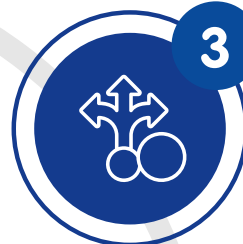
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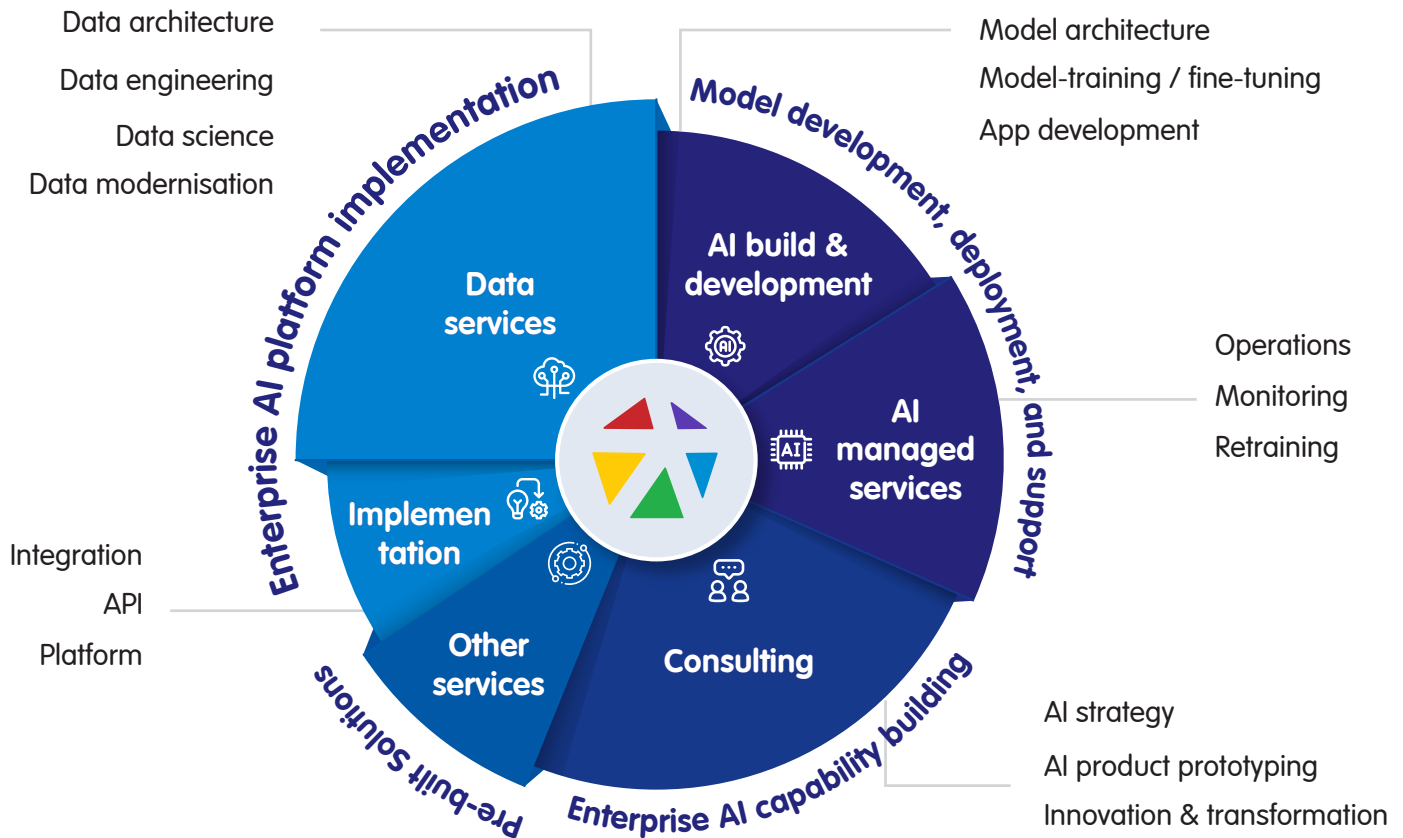
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### Pre-built Solutions

# Your AI journey made easy in Energy & Utilities Trust us to deliver each step, from vision to execution!



**Grab your free assessment!**

## About US

Centelon Solutions is a trusted business-technology solutions partner, helping large to mid-size organisations across various industry verticals in their digital transformation journey. Our core strength lies in aligning technology with investment goals and defining a strategic roadmap to continuous transformation. We aim to integrate digital technology built on a foundation of our own platforms and IP, combined with best-of-breed COTS solutions, into all areas of businesses to deliver better customer value.

We work with customers to keep pace with new trends and achieve dynamic objectives such as: higher and faster value with business-driven technology implementation using agile methodology and DevOps; technology excellence through automation, continuous delivery, application modernisation, and leveraging next-generation technologies; as well as enhanced cost optimisation through reduced cost and improved quality with cutting-edge proprietary accelerators and platforms.

