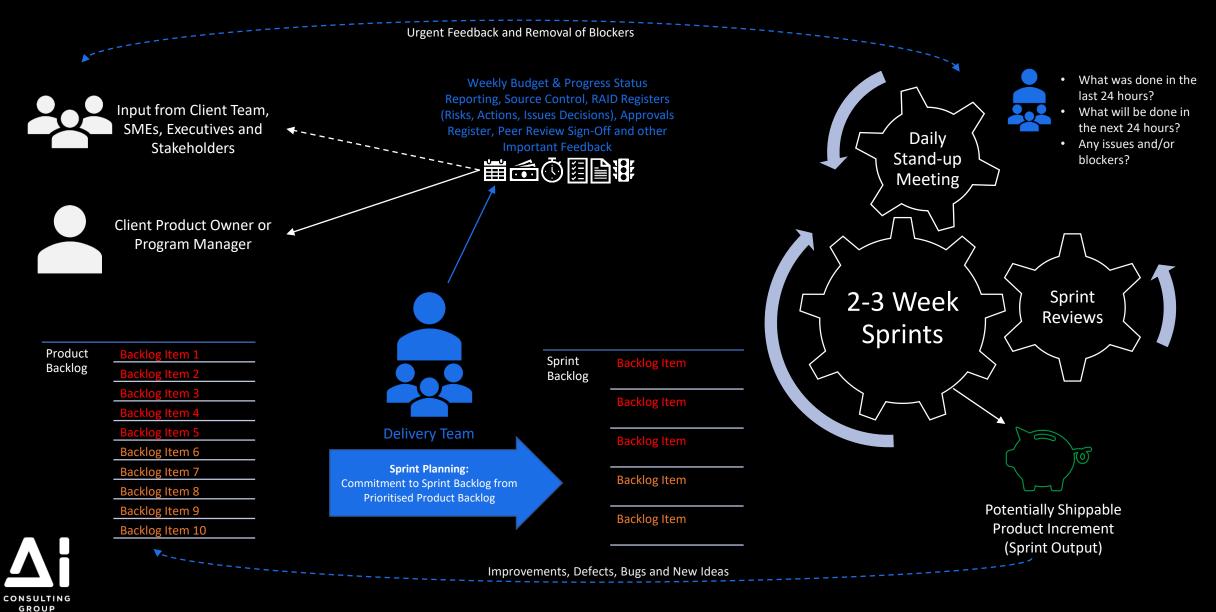
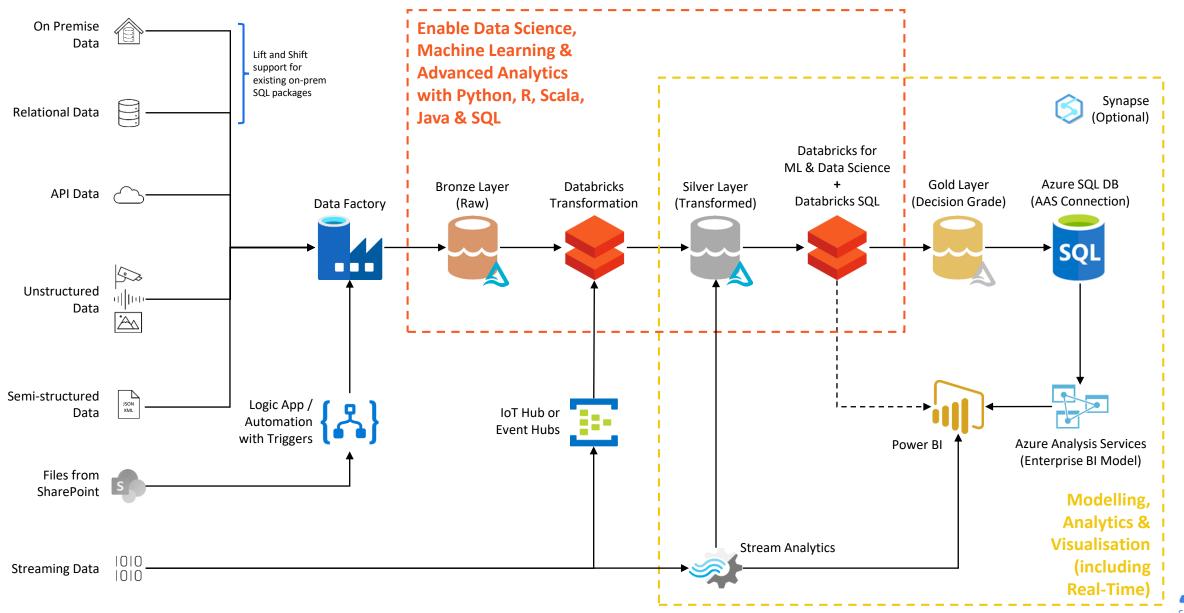


### Data Platform Modernisation: Machine Learning

### Agile Delivery for Maximum Business Flexibility



## 5-Day Data Lakehouse Implementation (Azure EBI)



CONSULTING GROUP

# Machine Learning Accelerators



Minimise Time-to-Value by Leveraging on our ML Accelerators and Experience

### **Pre-Built Features and Methods**

- Automated Exploratory Data Analysis.
- Hundreds of critical time-based features including MoM, QoQ, YoY, Day, Month, Seasonality, Public Holidays and much more.
- Business Features such as financial views, sales views and product grouping considerations.
- Tried and Tested rollback windows and crossvalidation methods.
- APIs, Connectors, ML Pipelines and Architectural Templates for Azure
- Data Cleansing and Error Detection.

### Pre-Built Accuracy Improvement and Computational Efficiency Methods

- Pre-designed methods for combining predictive models to increase accuracy and performance (for example, the combination of XGBoost and ElasticNet models).
- Ensembled Neural Networks Methods.
- Hyper-parameterisation and Tuning Guides.
- Efficient, Low Overhead Scenario Modellers.

## Our End-to-End Approach



### **Opportunity Catalogue**

#### Activities:

- Site Walkthroughs
- Data Landscape Maturity Assessment
- Board Priority Identification
- Business Priority Identification
- Operations Research
- Exploration with SMEs
- Top 10 Cost Drivers
- Top 10 Revenue Drivers

#### **Outputs:**

- Opportunity Priority List
- Opportunity Roadmap
- Business Case Development
- Architecture Strategy

#### Design, Build & Test

- Security by Design & AD
- IOT and Edge Considerations
- Platform Adoption
- Provisioning Environments
- Design Workshops
- Define Architectures
- Network Design
- UX Design
- Disaster Recovery
- Process Design
- Application Development
- SME Validation
- Information Flow
- Dev Ops (CI/CD)
- Testing
- Deployment
- Platform Monitoring
- Change Management
- Documentation

#### AI & Optimisation

- Reporting
- Master Data Management
- KPI Monitoring
- Dashboards
- Stream Analytics
- Text and Sentiment Analytics
- Image Recognition
- Emotion API
- Natural Language Processing
- Voice Analytics
- Video Analytics
- Model Optimisation
- Machine Learning
- Unsupervised Learning
- Reinforcement Learning
- Decision Support
- Recommendation Engines
- Simulations
- Digital Twins
- Autonomous Control
- Physical Automation

#### **Business Transformation**

- Return on Investment
  - Operational Efficiency
  - Additional Revenue
  - Reduced Cost
  - Increased Customer Satisfaction
- Increased Market Share
- Board & Executive Assurance
- Risk Mitigation



### Outsource Advanced Data & Al Projects to Guarantee Outcomes, Reduce Risk & Minimise Cost

- A broad mix of skillsets is required to deliver typical Data & AI • projects; each skillset often only required for specific part of the project.
- A team of specialists with distinct skills will always deliver a • project with higher quality, and faster than a generalist (lower cost and improve development velocity).
- Low staff turnover means we have a tightly knit team that works ٠ well together and retains IP and knowledge about your longterm projects.
- Experience! AI Consulting Group accelerates projects with IP, • accelerators as code, pre-written deployment practices, previous learnings and proven frameworks which means that even if our project is more expensive per hour, its still more cost effective over the project.
- Risk mitigation we offer fixed prices for fixed outcomes, • effectively reducing the risk of your project.

**Typical Data & AI Projects** might involve:

- Management Consultants & Project Strategists
- Program / Project Managers
- **Data Engineers**  $\bullet$
- Data Scientists
- **Business Intelligence Analysts**  $\bullet$
- Cloud, Infrastructure & Security Architects
- IOT Specialists  $\bullet$
- Application Developers
- Scrum Masters & Change Managers

