AIssisted™
Data Preparation

AIssisted™
Forecast & Prediction

AIssisted™
Decision-Support

AIssisted™
Dynamic Planning

AIssisted™ Planning and Performance Management
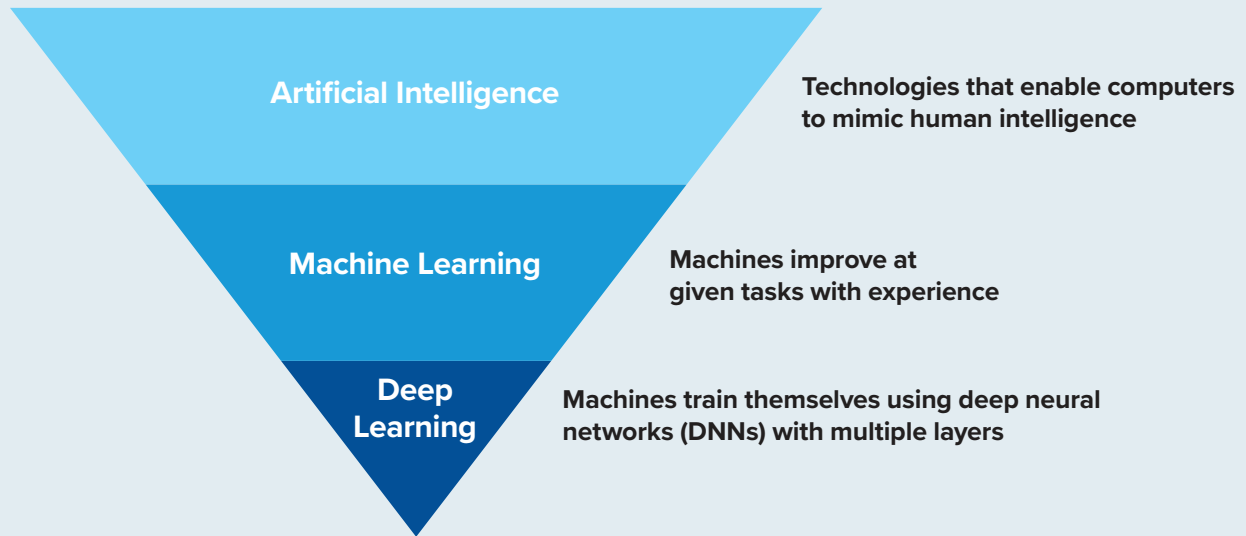
The Digital Transformation is Fueled by AI

The digital transformation is changing business as we know it. Data is the new currency, and companies need to continuously analyze data from multiple sources in real-time. Artificial Intelligence (AI) thrives on massive data and fuels the digital transformation. Thanks to the availability of affordable and scalable computing resources in the cloud, AI-enabled business applications will soon be the new normal.

Are you ready for this new era where people and intelligent machines are working together towards a common goal?

AIssisted™ Planning is the Jedox AI engine that enables planners to leverage predicitive analytics, artificial intelligence and machine learning for smarter, more automated Enterprise Performance Management. **AI**ssisted™ Planning makes predictive forecasting, smart decision-support and dynamic planning accessible to everyone in the company. Drive quality and automation in forecasting, leverage new insights and recommendations for performance management, and use key drivers to simulate the future of your business.

> **"By 2019, 40% of Digital Transformation Initiatives Will Be Supported by Cognitive/AI Capabilities."** IDC, 2018

What is Artificial Intelligence?

Artificial Intelligence

Technologies that enable computers to mimic human intelligence

Machine Learning

Machines improve at given tasks with experience

Deep Learning

Machines train themselves using deep neural networks (DNNs) with multiple layers

How AIssisted™ Planning works - Core Capabilities

The Jedox AI engine delivers answers to many different types of business questions applying its core functions for predictive planning and analytics, AI and machine learning to Enterprise Performance Management.

AIssisted™ Data Preparation:
The services find gaps and outliers in time series and connected data and recommends values through outlier detection, interpolation and continuous learning.

AIssisted™ Forecasting & Prediction:
The advanced analytics service for time-series data returns the best prediction as a baseline for planning and forecasting. It includes upper and lower bounds as well as a quality factor for the prediction using multiple optimized algorithms like ARIMA, Exponential Smoothing, Holt Winters, Random Walk etc.

AIssisted™ Decision-Support:
Find patterns, analyze trends and discover new insights in your data, e.g. financial, customer or product data. A wide selection of advanced analytics, AI and machine learning algorithms are available for feature selection, classification, clustering, segmentation and more.

AIssisted™ Dynamic Planning:
Identify the key drivers for business performance and uncover relationships. Connect drivers for financial and operational plans and integrate real-time data for a dynamic simulation of future business results.

> **"70% of enterprises expect to implement AI over the next 12 months."** Predictions 2018: The Honeymoon For AI Is Over, Forrester

Pre-built Jedox AIssisted™ Planning Applications

AIssisted™ Planning Model	Description	Sample Questions
Data Cleansing & Validation 	Validation and cleansing of input data is a prerequisite for any AI project. Prepare data for further analysis steps, find missing values and outliers and detect seasonality and patterns. Fill gaps and clean outliers using interpolation.	▸ **Is my data set complete and correct?** ▸ **Do I have seasonality in my data?** ▸ **Are there any recurring events?** ▸ **Are there exceptions, one-time event or outliers?**
Sales Planning & Forecasting 	Planners on all levels automate forecasting using a blend of actuals and AI predictions. Validate plans and identify risks and upsides per region, product or customer. Sales reps as well as sales management monitor target attainment with real-time data during the year.	▸ **What will our revenue be next month, quarter, year?** ▸ **What is the best sales forecast (units/ revenue) including seasonality and recurring events?** ▸ **Will I hit my target for the current year?** ▸ **What's the risk/upside in the sales forecast?**
Customer Churn & Profitability 	Planners in finance, sales, marketing, customer service, and other operational and executive teams gain insights on current and predicted churn and profitability KPIs to identify which customers are at risk. Decision-makers gain actionable insights to take corrective and preventative actions.	▸ **Which customers are likely to leave in a respective period?** ▸ **Which transactional, behavioral or demographic customer features influence churn?** ▸ **Who are the most valuable customers (e.g. Life Time Value)?** ▸ **Which features could reduce churn?** ▸ **Which acquisition channelhas the highest retention rate/ profitability?**

Augmenting Enterprise Performance Management with Predictive Analytics and AI

Data
Uncover the hidden value in your data from CRM, ERP and other systems. Connect and clean data from critical external sources to plan and forecast your business.

People
Provide access to AI-driven insights and automation for users across the organization. Jedox planners in various roles can make better decisions faster requiring no specialized resources or know-how.

Process
Automate repetitive processes like monthly forecasting and drive more agility and efficiency through dynamic driver-based planning in Finance, Sales, HR, Operations and Supply Chain.

Performance
Validate forecast and plans against a baseline and understand risks and upsides. Continuously monitor and predict future performance and receive insights and recommendations for target achievement.

Technology FAQ: AIssisted™ Planning

What is AIssisted™ Planning?
AIssisted™ Planning is the new Jedox AI engine, an integrated cloud service that enables planners to leverage predictive analytics, machine learning and artificial intelligence in Enterprise Performance Management.

How does AIssisted™ Planning support Enterprise Performance Management?
AIssisted™ Planning can enhance the quality of forecasts and plans and drive process automation. **AI**ssisted™ Planning can also provide smart insights and recommendations to enable faster decision-making and improve business performance. Last but not least, it can be used for data validation and cleansing. Jedox **AI**ssisted™ Planning has four core capabilities: **AI**ssisted™ Data Preparation, **AI**ssisted™ Forecasting & Prediction, **AI**ssisted™ Decision-Support, and **AI**ssisted™ Dynamic Planning. The core functions can be applied to many different EPM topics such as sales forecasting and planning, customer churn and profitability analysis, demand planning and more.

Who benefits from AIssisted™ Planning?
Jedox application builders can design an AI-enabled Jedox solution for all users across the organization with limited requirements for specialized know-how or resources. The AI-driven insights are available for everyone in Jedox Reports, notifications, etc.

How can Jedox customers use AIssisted™ Planning?
AIssisted™ Planning is a premium cloud service for Jedox customers which integrates via Jedox Integrator in Jedox Software. The cloud service is avaible for testing on the Jedox AIssisted™ Planning demo cloud.

I have my own AI models and a team of data scientists. How can I leverage the Jedox AI engine?
AIssisted™ Planning targets Jedox power users and business users and does not require in-depth knowledge of data science. However, it is also possible to integrate your own custom AI models in the Jedox **AI**ssisted™ Planning service and use Jedox to report data outputs for planners.

Is my data secure when I use AIssisted™ Planning?
The data exchange between the Jedox AI cloud engine and Jedox software is secured by the latest enterprise-grade technologies such as SSL, Microsoft Azure AD, private virtual network etc. to safeguard your data at all times.

How reliable are the AIssisted™ Planning results?
For full transparency Jedox delivers accuracy, significance and probability values for the **AI**ssisted™ Planning results, so users can check and validate the results.