



Production asset management

Services for your business

2023

kept

Kept asset management professionals provide services in several key areas in major industrial sectors of the economy

Our technical consultants and auditors understand industry challenges, the complexities and risks faced by businesses in managing their finance and production.

The Kept team is certified by leading international technical educational institutions in M&R and reliability management (University of Stuttgart, Marshall Institute).



Oil & Gas



Power & Utilities



Metals & Mining



Chemicals

Company challenges

We offer an optimal set of solutions for the challenges faced by the company at all stages of the life cycle of a production asset

Asset life cycle

1. Design

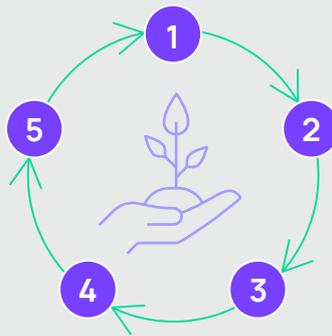
- Maximizing the benefits from an investment project
- Aligning the investment project with the company's strategy
- Assessing the project compliance with ESG criteria (carbon intensity, environmental impact, etc.)

5. Decommissioning

- Identifying production assets to be replaced or overhauled
- Determining the value of production assets being decommissioned

4. Operation

- Achieving optimal performance
- Optimizing the maintenance schedule, downtime minimization
- Achieving optimal timing and cost of preventive maintenance
- Ensuring the reliability and safety of production assets
- Improving the energy efficiency of production assets and reducing the carbon intensity of production processes

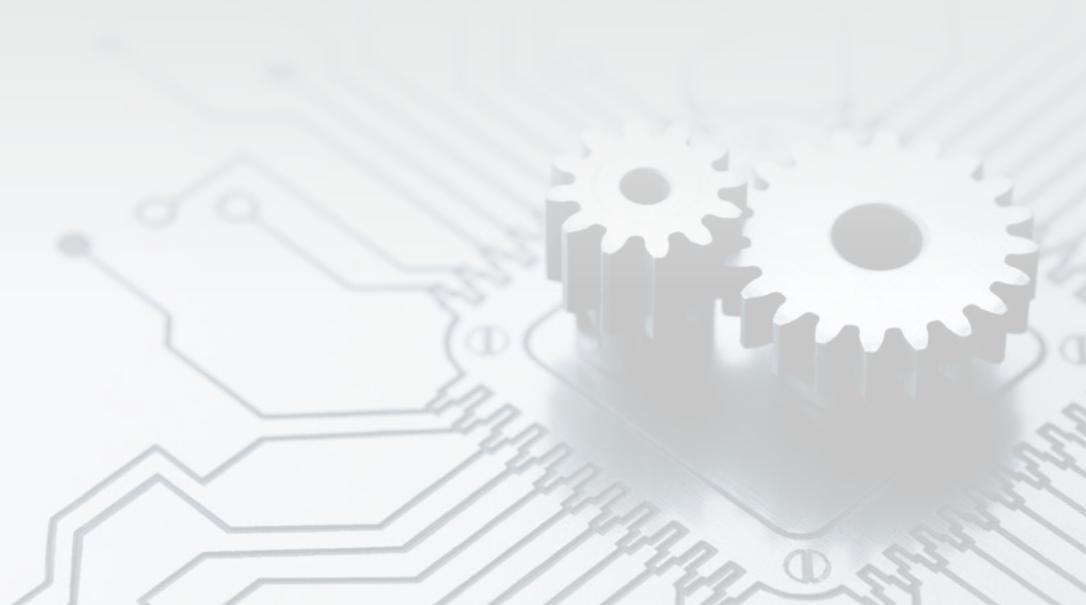


2. Procurement and construction

- Minimizing capital expenditures
- Determining the value of an asset throughout its life cycle
- Ensuring compliance with the company's requirements

3. Commissioning

- Ensuring that a production asset is ready for operation and has required characteristics
- Minimizing the risk of early failure of a production asset



With over 15 years of experience in production asset management, Kept professionals have created a robust methodology for analyzing assets, adapting the existing asset management system to modern reliability and energy efficiency requirements and identifying opportunities for companies to develop in accordance with their needs.

The effective management of production assets serves as the basis for sustainable development of large industrial companies, which balances their productivity, risks and operating costs.

One of the key objectives in this area is to create optimal asset maintenance and budgeting strategies to support the accident-free operation of all company production systems.



Efficient management of production assets is based on optimized decision-making processes throughout their lifecycle.

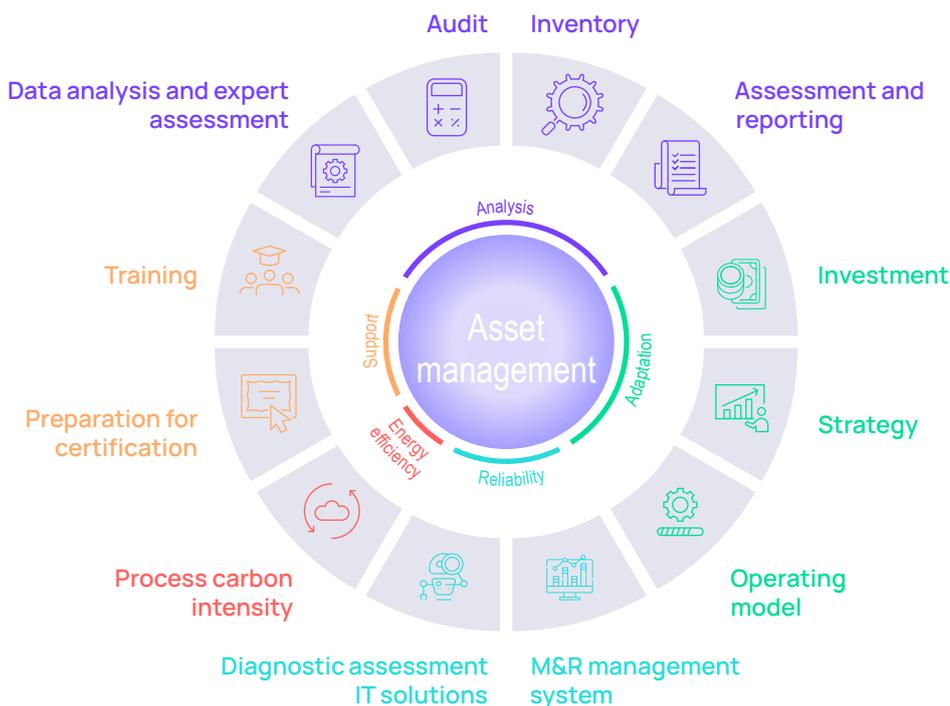


The accumulated statistics of historical data and comprehensive assessment of company performance allow asset owners to anticipate and better assess the consequences of future decisions to ensure the reliability and safety of asset operation.



Analysis of the cost/risk/performance ratio, including energy efficiency and process carbon intensity indicators, helps determine cost efficiency and identify good investment opportunities.

Areas of Kept services





Data analysis, due diligence, assessment and reporting

- Assisting in the assessment of technical inputs, in particular for databases with a large number of individual assets (>100,000), considering the quantity, technical characteristics, the date of investment, location and value
- Assisting in calculating the value of tangible assets based on circumstances, objectives, legal requirements and various methodologies
- Assisting in optimizing the presentation of input data using specialized tools and methods
- Linking technical, operational and financial information, harmonizing functional data
- Assisting in building a link between the results of technical inventory and financial documentation

In addition:

- Analyzing the energy intensity of production and assessing the potential for improving the energy efficiency of production assets
- Quantifying greenhouse gas emissions and assessing the potential to reduce the carbon intensity of production processes

Your benefits

Improved, as well as more complete, accurate and timely, financial, technical and non-financial reporting will increase the satisfaction of shareholders, financiers, regulators and potential customers, and enhance your standing in sustainability ratings. Getting better information will allow you to make better management decisions, to achieve an optimal balance of costs, risks, capacity and productivity.

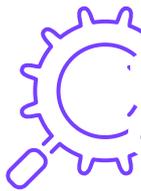


Financial and technical audit

- Technical audit of property, plant and equipment; assessment of the technical and technological potential of the company
- Benchmarking key asset management system indicators against global ones
- Auditing IFRS financial statements for tangible assets on your balance sheet

Your benefits

Asset management is measured and benchmarked against international and local reporting and audit standards, which provides assurance about the quality and stability of asset management systems and identifies the areas that need to be addressed to develop those systems.



Inventory of production assets

- Assisting in performing an accurate and complete inventory of assets, the results of which can be used for various purposes
- Performing an inventory of GHG emission sources
- Assisting in defining key metadata
- Developing a data management model

Your benefits

We ensure the accuracy, transparency and completeness of the data collected, so that you can use the inventory results for a wide range of purposes: to meet insurance requirements, to perform valuations during due diligence (for example, in the event of a merger or acquisition), to ensure compliance with IFRS requirements, to identify opportunities for optimizing costs and investments, etc.



Programs and plans

- Reviewing asset development programs and plans and assisting in the development and adaptation of relevant program documents and a technical policy
- Updating the regulatory and methodological framework, reviewing the compliance of asset management standards / regulations / procedures and business processes of the company, defining the target coverage of business processes with the regulatory and methodological documentation

Your benefits

We provide methodological support for changes and help align the company's development plans with international trends and best practices in asset management, as well as assist in the harmonization of the company's local regulations.



Cost optimization and investment opportunities

- Developing models and optimizing decision-making processes for overhaul and retrofit of assets
- Developing Asset Value Management models
- Assisting in calculating cost changes, conducting cost-benefit analyses, determining the best financing options and in conducting feasibility studies
- Assisting in identifying opportunities to optimize investment and maintenance budget

Your benefits

You will be provided with an independent assessment of existing costs and potential effects, an overview of identified opportunities to optimize maintenance and investment program costs, and robust scenarios for building financial models.



Asset management strategy and framework

- Assisting in reviewing the asset management strategy and framework based on corporate needs, regulatory requirements, market trends, future plans, current investment needs related to asset reliability, safety, etc.
- Assisting in asset criticality analysis to determine the most effective maintenance strategy
- Evaluating the impact of the current maintenance strategy on the total cost of ownership of an asset, developing approaches to select the optimal asset management strategy

Your benefits

We help develop an optimal approach to asset management in order to improve the efficiency and reliability of assets through reasonable budget reallocation and ensuring an acceptable level of aggregate risk for the company.



- Conducting a review of the existing asset management system, assessing the current level of system development and identifying areas for improvement
- Assisting in the development of a target operating model and asset management system
- Reviewing the alignment of maintenance and repair, procurement processes and inventory, contractor and finance management processes throughout the lifecycle of an asset
- Building a system of comprehensive indicators to assess the efficiency and effectiveness of asset management

Your benefits

Building an efficient and effective asset management system and optimizing processes makes it possible to increase the company's profitability and reduce losses.



- Operational audit of production units (Chief Engineer's Office, Chief Mechanic's Office, etc.)
- Risk analysis in business processes of production and technical functions
- Assessment, modeling and implementation of the target M&R and reliability management system for production assets
- Implementation of the risk-based approaches to M&Rs

Your benefits

Drawing on our extensive industry experience, we are able to offer customers international best practices and comprehensive solutions for maintenance and repair management, as well as reliability and safety of production assets.



Diagnostic technologies and IT solutions

- Reviewing the technologies and IT solutions used by the company
- Providing suggestions for implementing cutting-edge technologies for equipment diagnosis and monitoring (vibration measurement and analysis, corrosion checks, etc.)
- Developing functional and technical requirements for the implementation of IT solutions in the area of production asset management
- Turnkey implementation of IT solutions on various platforms
- Automation of GHG emissions and product carbon footprint calculation

Your benefits

We cooperate with leading experts and IT suppliers to ultimately offer an integrated solution tailored to your company's needs – from the maturity level analysis to process automation



Preparation for certification

- Reviewing asset management business processes, the existing local regulatory and methodological documents (policies, standards, procedures)
- Identifying and reviewing any gaps between the current state and ISO 55001 requirements
- Preparing for ISO 55001 certification

Your benefits

Compliance with standards gives regulators, consumers, investors and other stakeholders confidence that the company adheres to asset management best practices and complies with legal sustainability requirements.



- Training in Reliability Centered Maintenance (RCM) and Risk-Based Inspection (RBI) methodologies
- Holding workshops on Root Cause Analysis (RCA) and Failure Mode, Effects and Criticality Analysis (FMECA) methodologies
- Training in the assessment of costs over the life cycle of assets, operating costs, and the performance of investment analysis
- Training in planning repairs and organizing the operations of a repair function
- Training in methodologies for quantifying greenhouse gases and product carbon footprint

Your benefits

The training process will provide you with information and tools that support the application of a modern harmonized and systemic approach to asset management, help improve the quality of maintenance, reliability of assets and optimize costs.



Energy efficiency, decarbonization of processes, climate risk management

Energy efficiency and decarbonization of processes

- Performing an inventory of GHG emission sources based on industry specifics and processes to ensure comparability with global best practices and BAT
- Quantifying direct and indirect GHG emissions in accordance with ISO 14064-1:2018
- Calculating product carbon footprint in accordance with ISO 14067:2018
- Providing assurance of GHG emissions reporting data or supporting in the process of verification of carbon reporting by an independent body in accordance with ISO 14064-3: 2018
- Benchmarking the energy consumption and carbon intensity of processes against global best practices and BAT, factor analysis of deviations
- Developing programs to increase energy efficiency, decarbonize processes and reduce the carbon footprint of products
- Developing climate projects to provide carbon offsets
- Exploring opportunities for additional profits from trading climate project results (CTB)
- Developing corporate strategies to manage energy efficiency and GHG emissions, a system of energy efficiency and process carbon intensity KPIs

Energy and environmental management systems

- Developing and implementing energy and environmental management systems in accordance with ISO 50001-2018 и ISO 14001-2015, providing advice on the certification procedures
- Developing measures to improve the effectiveness of management systems
- Integrating energy and environmental management systems with quality management systems and corporate sustainability policies and standards

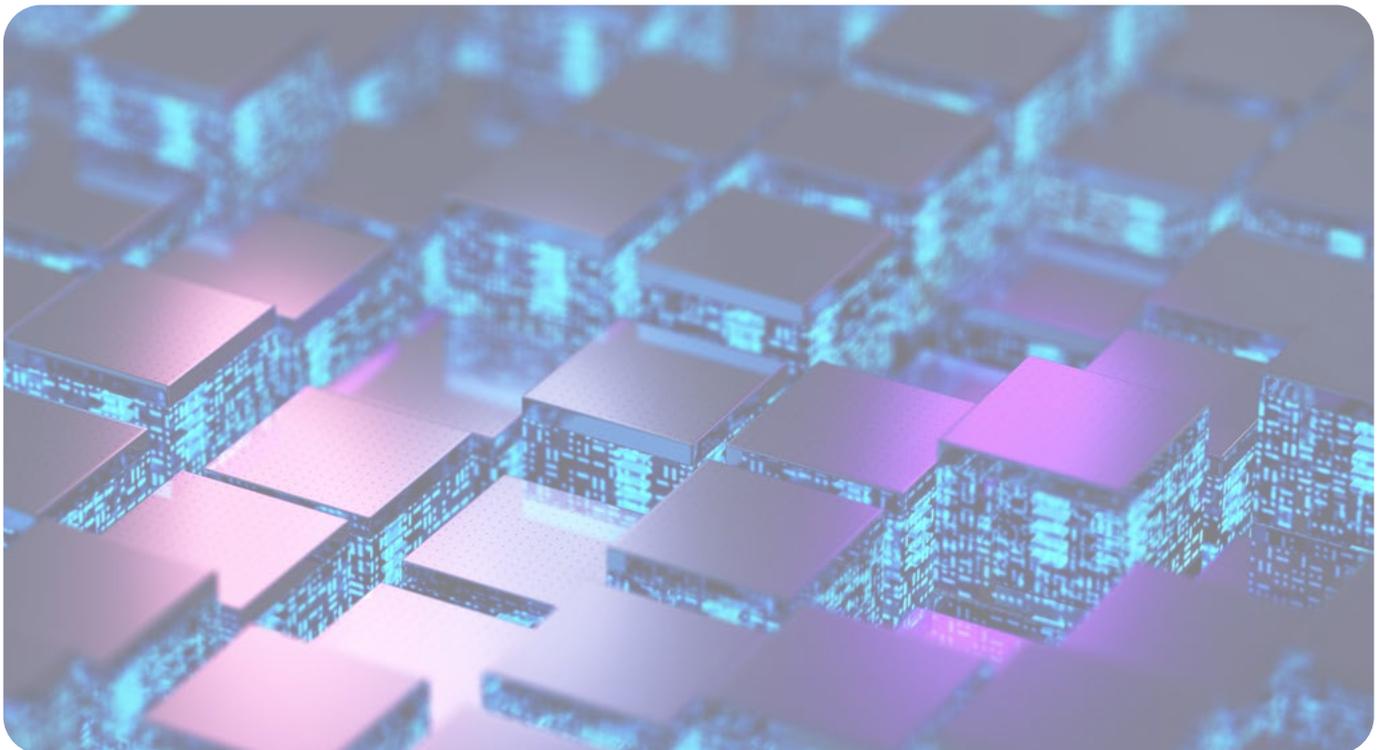
Climate risk management

- Qualitative and quantitative assessment of climate risks in accordance with the TCFD recommendations
- Developing recommendations to improve the company's standing in ESG ratings of leading climate-related analytical agencies (e.g. CDP)
- Building a climate risk management system within the company's operating model
- Developing measures to manage regulatory climate risks and mitigate the consequences of the Carbon Border Adjustment Mechanism (CBAM) adoption
- Developing stakeholder engagement programs on climate adaptation to promote the company's interests

Your benefits

Our certified technical consultants and industry experts have experience in developing energy and environmental management systems, carbon reporting and producing strategies and programs to improve energy efficiency and decarbonize processes based on an objective analysis of the potential and applicability of technical and organizational measures.

Through our experience of working with international and domestic expert platforms, we help our clients build an effective system for managing climate risks and assist in the development of climate strategies and programs for engaging with the regulator and other stakeholders.



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