

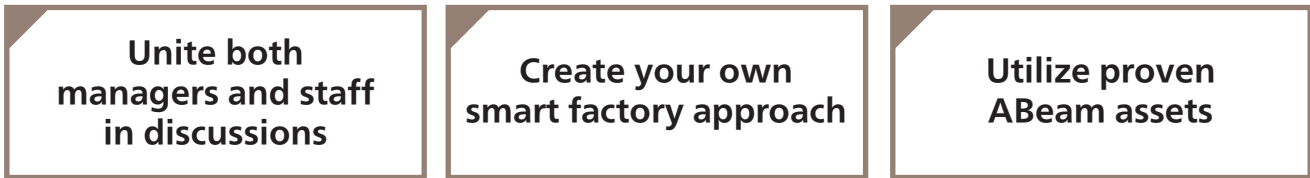
Factory Assessment Service - Smart Factory & Operations -

Develop a future vision to secure the first steps towards a smart factory

Although smart factories that utilize data and digital tools at factory sites play an important role within Industry 4.0, new issues arise, such as disappointing **return on IoT system investment**, or **low company-internal IoT proficiency levels**.

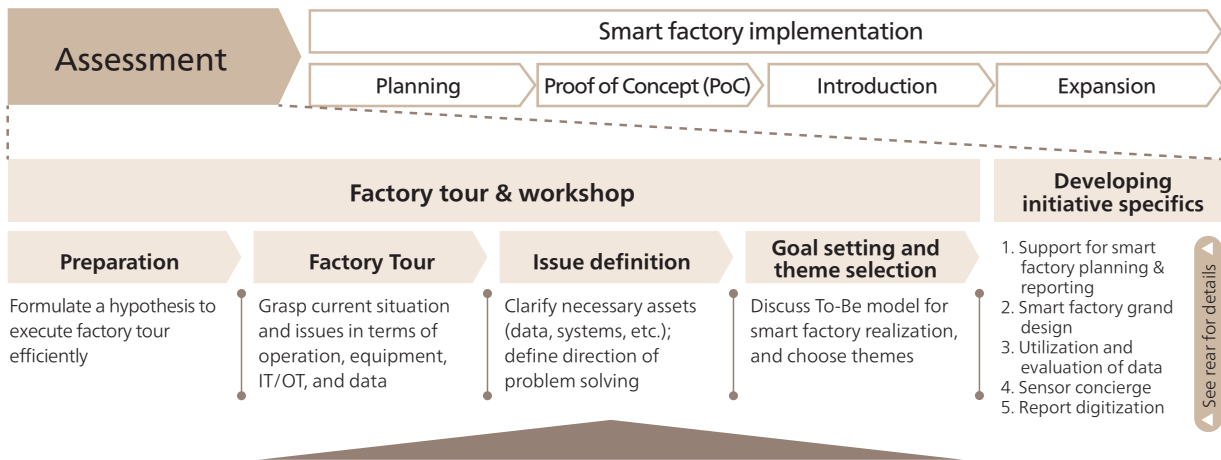
ABeam Consulting offers a range of IoT solutions leveraging **manufacturing industry expertise and cutting-edge technology**.








Our assessment service **identifies issues and sets tasks to develop resolution approaches**, supporting the **first steps toward smart factory implementation**.



Approach

We adopt an approach to problem solving that utilizes manufacturing industry expertise and data to move forward without burdening factory operations.



Example factory tour schedule		Factory review perspectives		Involve relevant departments			
	Day 1	Day 2	Tasks	Data	IT/OT		
AM	Orientation (Introduction of visit aim, members, etc.)	Introduction of ABeam IoT case studies /solutions and demonstration of analysis					
	Factory Tour (Review of manufacturing site)	Discussion of ideal state (Senior management & workplace representatives)					
PM	Q&A and wrap-up after factory tour	Establishment of initiative themes & prioritization					
	Selection of production site issues & discussion	Assessment wrap-up					

Our consultants review your factories from four perspectives

The definition of concrete themes clarifies which divisions should be involved and company activities that were conducted individually can be unified

We provide five services and implement them in ways tailored to each client's situation.

1. Smart factory planning & support

We assess your factories to confirm your ideal state and establish highly feasible themes to prepare a roadmap. Thereafter, we provide support for preparing reports.

Roadmap preparation

We discuss your ideal state and prepare a roadmap outlining its realization based on results of established themes

Reporting support

We quantify results and support report preparation

Value of services provided

We clarify activities together with their effects that should be tackled in the future. We advance internal reporting.

2. Smart factory grand design

Following the analysis of your company's past PoC initiatives and the current state of your factories, we develop a grand design from a companywide perspective.

Analysis of details of past PoC implementation

We reorganize PoC initiatives carried out at each factory site, aiming to share success/failure examples

Grand design

We propose unified themes and system architecture to advance companywide PoC effectiveness

Value of services provided

You can obtain a grand design of your ideal direction to take and the necessary systems for its realization (overall design comprised of completed individual systems)

3. Utilization and evaluation of data

By analyzing existing data, we verify the potential of the data to use in visualization and forecasting.

Analysis and evaluation of existing data

We analyze existing data to verify if it can be leveraged in manufacturing for visualization, detection and forecasting

Evaluation of data types

We assess the necessity of existing data and determine what new data should be obtained

Value of services provided

You can judge the potential of your data and where to utilize it.

4. Sensor concierge

We verify the data selection and data collection method needed to realize themes selected in factory assessment.

Selection of data types

We analyze the target processes and identify data types that should be obtained

Design of methods to gather data

We select sensors and network paths, and design data storage systems, etc.

Value of services provided

You can determine data types, data sourcing locations and sensors, as well as sensor installation methods and a data collection network configuration.

5. Report digitization

We verify ways to digitize manufacturing site reports and Excel spreadsheets.

Selection of target for digitization

We assess reports from manufacturing sites and select those to target for digitization

Design of digitization method

We select and design the means for digitization (tablet, RPA, etc.), including the network and method for data coordination

Value of services provided

You can determine the method for data digitization and coordination.

Contact

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