

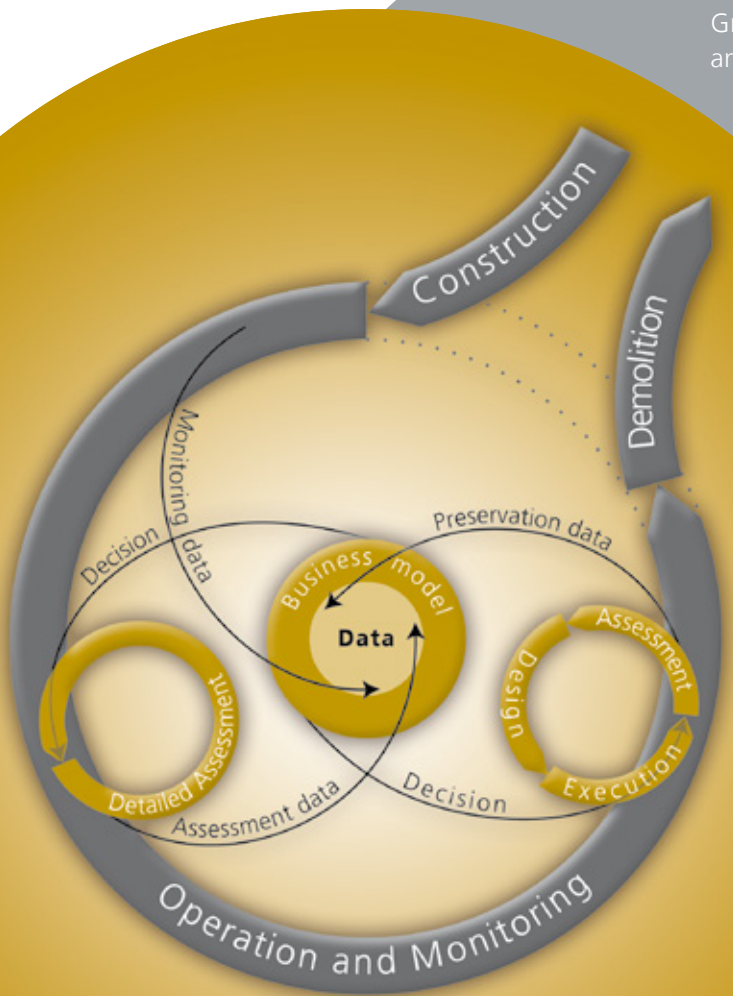


IMC ■ INFRASTRUCTURE MANAGEMENT CONSULTANTS

Services

Infrastructure Management Consultants GmbH (IMC) supports owners/operators of public and private infrastructure systems to optimally allocate available maintenance funds. IMC is traditionally specialized in the management of roadways and engineering structures. Gradually IMC has broadened its area of expertise to other infrastructure systems such as sewer systems in urban areas.

The services of IMC focus on evaluation, development and improvement of business models and business support systems related to the maintenance and operation for both individual facilities and entire infrastructure systems. IMC also implements business support systems i.e. infrastructure management systems that enable objective decision making with regard to maintenance interventions. These are based on the physical condition of infrastructure, risk exposure and life-cycle costs. IMC regularly conducts research in its areas of expertise.



Mission

Infrastructure Management Consultants (IMC) supports clients to determine optimal management strategies or the maintenance and operation of their built infrastructure using appropriate technologies.

IMC develops optimal management strategies taking into consideration the construction, operation and maintenance, and demolition phases of individual facilities and entire infrastructure systems. This involves the collection of data throughout normal operation and maintenance, after inspections and detailed assessments and after execution phases of interventions. This data is stored and analyzed using a database / management system. Using an effective business model, the system is used to trigger new monitoring activities, detailed inspections and interventions as well as to improve the business model itself.



Strategies, business processes and systems in infrastructure management

- Defining objectives and strategy development
- Defining key performance indicators (KPI)
- Evaluation and improvement
- Feasibility and risk analysis
- Concepts for exploitation of available data
- Implementation of ISO 55000ff compliant systems
- Digitalization

Operation of business supporting systems

- Data collection and validation
- Data analysis and interpretation
- Client management support

Software solutions

- Development of customer-oriented web- and client-server software

Own products and partner solutions

- infSuite with the modules:
 - infFaros – operative and strategic maintenance planning
 - infKUBA – maintenance management of engineering structures
 - infTruck – evaluation of bridge serviceability for special transports
 - Inspecto – inspection of engineering structures using iPad
- KUBA-Cockpit – maintenance planning of road structures
- KMW – maintenance planning of road structures
- ISI-MS – integrated maintenance planning of road infrastructure

Research

- Decision models
- Data modelling
- Risk and safety
- Operations research
- Big data / data mining
- BIM

References

- Concept, realization lead and support for the Swiss Road Structure Management system (KUBA)
- Conceptualization and realization of integrated infrastructure management system for Canton Basel-City.
- Horizon 2020 research projects: Safe-10-T, Safety of Transport Infrastructure on the TEN-T Network
- CEDR Project "Exchange and exploitation of data from Asset Management Systems using vendor free format – AMSFree"
- Mandates for consulting, support and representation for the Swiss Federal Road Office (FEDRO), the Swiss Federal Railway (SBB), the German Federal Ministry for Transport and Infrastructure (BMVI), the German Road Agency (BASt), the Austrian National Highway owner (ASFiNAG), the French RFF as well as cantonal and communal road agencies in Switzerland.

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