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Shaping digitization securely.

Management of complex IT-projects

iABG

IT-projects are subject to many issues that need to be considered. In order to lead complex IT-projects to success they have to be actively managed. This not only requires time and effort but also a thorough grounding in the appropriate **experience** and the **know-how** of the **project´s content**.

The competent staff of IABG manage all tasks within and around the entire life-cycle of a project on your behalf – from project launch to completion.

Whether as a project management office PMO, a technical consultant or as your designated project or program manager, in each role, we provide the necessary routine, commitment and creativity to achieve your project goals.

You are just launching a new project or you are faced with the challenge of rescuing a project from running askew? Do get in contact with us!

IABG has specialized particularly in co-managing complex ICT and IT infrastructure projects, such as system implementations and migrations.

We get your organization ready for BSI (German Federal Office for Information Security) certifications and prepare and carry out the respective audits. We furthermore offer extensive experience in critical infrastructure, such as the modernization of various types of control centres.

When planning projects **we strictly follow your goals and expectations** in order to develop a structured project plan with clearly defined milestones for each work package. If the requirements cannot be clearly defined at project kick-off, we will control the project fluidly in line with your needs. Flexibility is an absolute must for us, required not least to minimise any possible harmful effects due to project risks.

In addition to an investment component, IT-projects usually have organizational aspects that need to be considered. Here as well we support you and provide our broad expertise, starting from planning to calling for tender, technology implementation, operation and the design of the life cycle. Some of the fundamentals to be worked out are:

- **Clear target definition, requirements and expectations**
  To complete a project successfully, all stakeholders have to pursue the same goal. However, this is only possible if the **objectives** of the project are known. The more the expectations of all participants are met, the more motivated they become. An attentive survey of requirements is a prerequisite for a consistent and effective implementation of the design architecture in the project.
- **Transition management**
  In IT implementation projects, special attention has to be directed to the **transition period**, the period covering the introduction of new technologies. While existing systems have to remain functional, at the same time and in addition to the infrastructural adjustments, the new systems have to be set up, tested and put into operation. This is a major challenge for the employees. They not only have to deal with two sets of systems, they also have to be trained in the new applications and for the support.
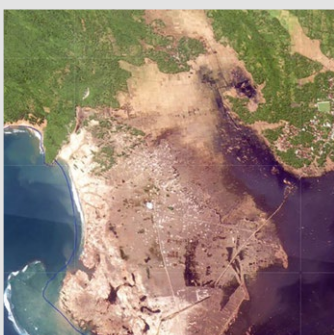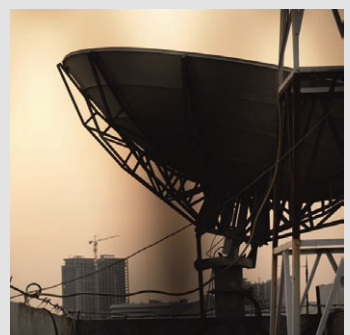

Aerial of Banda Aceh after the Tsunami of Dec. 2004

Bathymetric survey of the ocean floor

Sensor systems

Satellite hub at the monitoring center in Jakarta

- **Project environment and stakeholder analysis**

  Project environment analysis determines the influencing factors and parameters (e.g. legal regulations and environmental impacts) of the project. A **stakeholder analysis** considers the interests of all parties involved in the project. As a result of these two analyses, initial risks and also opportunities can be derived for the project and controlling measures can be adopted.

- **Risk management**

  All project risks have to be initially identified, assessed and counter-measures defined. **Risk management** continuously verifies project risks for completeness, rating and the implementation of corrective actions.

- **Communication and reporting**

  To a large extent, project management consists of **communi-cation**. We provide regular, needs-orientated information on project status to all stakeholders so that each one of them is always kept fully up-to-date.

- **Resource and means planning**

  Clear decision structures and responsibilities may only be defined within an adequate project organization. Do not underestimate the *day-to-day business* competing for the required resources. Therefore, a valid project and **resource plan** is essential.

- **Project planning and controlling**

  Milestones regarding time, technical and qualitative characteristics have to be agreed for each project phase transition. In complex projects and programs these milestones will be recorded and continuously monitored in a high-level operation plan in order to minimize negative effects on other processes caused by project deviations. In addition, the defined *traffic-light* functions underlying the operation plan help to spot deviations early and also serve the **structural reporting system**.

- **Interface management**

  The more complex a project, the more important is an excellent **interface management** to consider not only the content but also the temporal and organizational aspects between the various project stakeholders.

IABG accompanies and supports you in all these tasks with experienced and certified project managers.

Some of the projects we co-managed successfully for our customers even received awards:

- For the outstanding program management in creating the German Indonesian Tsunami Early Warning System (GITEWS) the **Roland Gutsch Project Management Award** of **Deutsche Gesellschaft für Projektmanagement e.V.** (German Association for Project Management reg. assoc.) was awarded by Thomas Rachel (Member of Parliament), the Parliamentary Secretary of State at the Federal Research Ministry.
- **The German Project Excellence Award** for the Implementation **of Digital Mobile Radio for Authorities and Organizations with Security Aspects.**

Seismic observation system
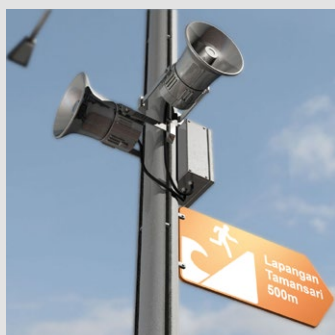
GITEWS Warning Dissemination *(Last Mile)*

The *German Indonesian Tsunami Early Warning System* (www.gitews.de) in Indonesia uses land-, marine- and satellite-based observation networks of seismology, oceanography and geodesy to identify risks. The data streams of the sensors of this observation network are transmitted to the Indonesian monitoring center. Here the data / data streams are further processed, matched and compared with simulation models. As a result, a hazard map with regionally differentiated warning messages is generated on the basis of current data enabling the necessary warnings and evacuation efforts to be launched.
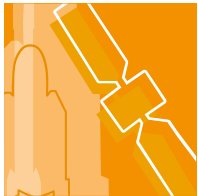
Image sources: © GITEWS

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About IABG

IABG offers integrated, ground-breaking solutions in the sectors Automotive • InfoCom • Mobility, Energy & Environment • Aeronautics • Space • Defence & Security. We provide independent and competent consulting. We implement with future viability and target orientation. We operate reliably and sustainably. Our success is based on an understanding of market trends and requirements, on our staff's technological excellence and a fair relationship with our customers and business partners.

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