



## INFORMATION AND COMMUNICATION TECHNOLOGY (ICT)

**At Ramboll, ICT is an integral part of the design. ICT supports enhanced coordination and collaboration through digital pooling of professional knowledge.**

### A holistic approach

Ramboll has developed and tested methods for using digital tools specialized for Pharma and the field of biotech. Pharma projects focus on flexibility; often a possible refurbishment is considered even before a building is finished. Ramboll's holistic approach focuses on the lifetime of the entire

building. Flexibility and forms of usage are a natural focus in the design by use of ICT. Already at the design stage, the operation and maintenance requirements are taken into account through digital building models that can support future FM needs. ICT provides good opportunities to organize data and allow the information to be re-used through the full project cycle. Thereby the entire overall economy aspect is supported – not only the project economy.

### ICT management

Ramboll's Pharma department can offer to carry out separate ICT Management on the projects. This way we can recommend the most optimal ICT services on a project to the client, and we support and facilitate the negotiation with external consultants, either as an integral part of the client's organization or as a consultant.

### Ramboll's experience

At Ramboll, we work intensively to adjust methods that support

projects with a fast track model staggering the stages with focus on meeting tight timeframes. Here, 3D modelling is an integral design tool. Ramboll has formed a team of technical specialists providing technical support and ensuring the right technical solutions, e.g.

- digital supervision
- collision and consistency checks
- virtual reality
- visualization and simulation models both in 4D and 5D.

Ramboll takes active part in national and international BIM conferences to secure the continued development of our knowledge and competences. At Ramboll, ICT is not the objective but the means to create enhanced collaboration and thus create the best project.

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### ICT PROVIDES NEW OPPORTUNITIES

ICT is a common name for digital tools and guidelines for digital collaboration. Digital collaboration between disciplines helps to ensure that the practical and technical aspects of the project are consistent. The use of e.g. 3D models at meetings and workshops supports the common understanding and facilitates the multi-disciplinary collaboration. ICT provides for the focus on progress and productivity gains.