



Company profile

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1. Company

- Shareholder structure
- Skills
- Focal point by branch and topic

2. Company profile

- Production of samples
- Materials and structural testing
- Qualification / Release of materials and processes
- Services

3. References

1. **comtracon GmbH**
2. **Stiftung Institut für Werkstofftechnik**
3. **BK Werkstofftechnik-Prüfstelle für Werkstoffe GmbH**
4. **Bremer Gesellschaft für Angewandte Umwelttechnologie mbH**
5. **Deicken und Engels Maschinenfabrik**
6. **Haindl Kunststoffverarbeitung GmbH**
7. **Ingenieurbüro H. Conze**
8. **F&E Technologiebroker Bremen GmbH**
9. **Fraunhofer Institut für Fertigungstechnik und angewandte Materialforschung Bereich Klebtechnik und Oberflächen**

CTQ combines different skills:

People

- **Sciences** <-> **Industrial engineering (practical)**
- **Experienced Industry-Manager** <-> **Assistants**
- **Specialists** <-> **Generalists**

Experiences

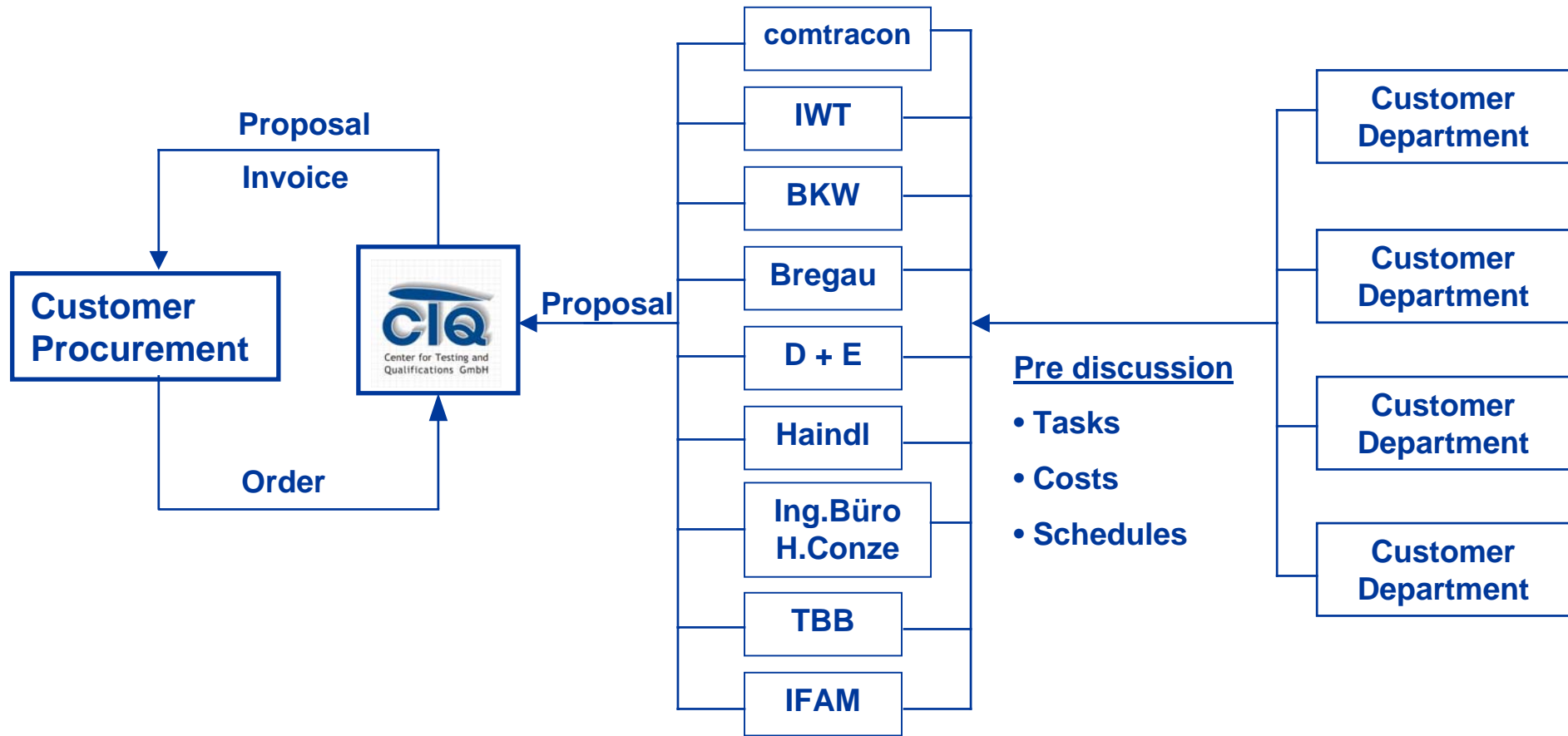
- **Materials /Processes / Technology**
- **Production and testing**
- **Qualification**
- **Management / Training**

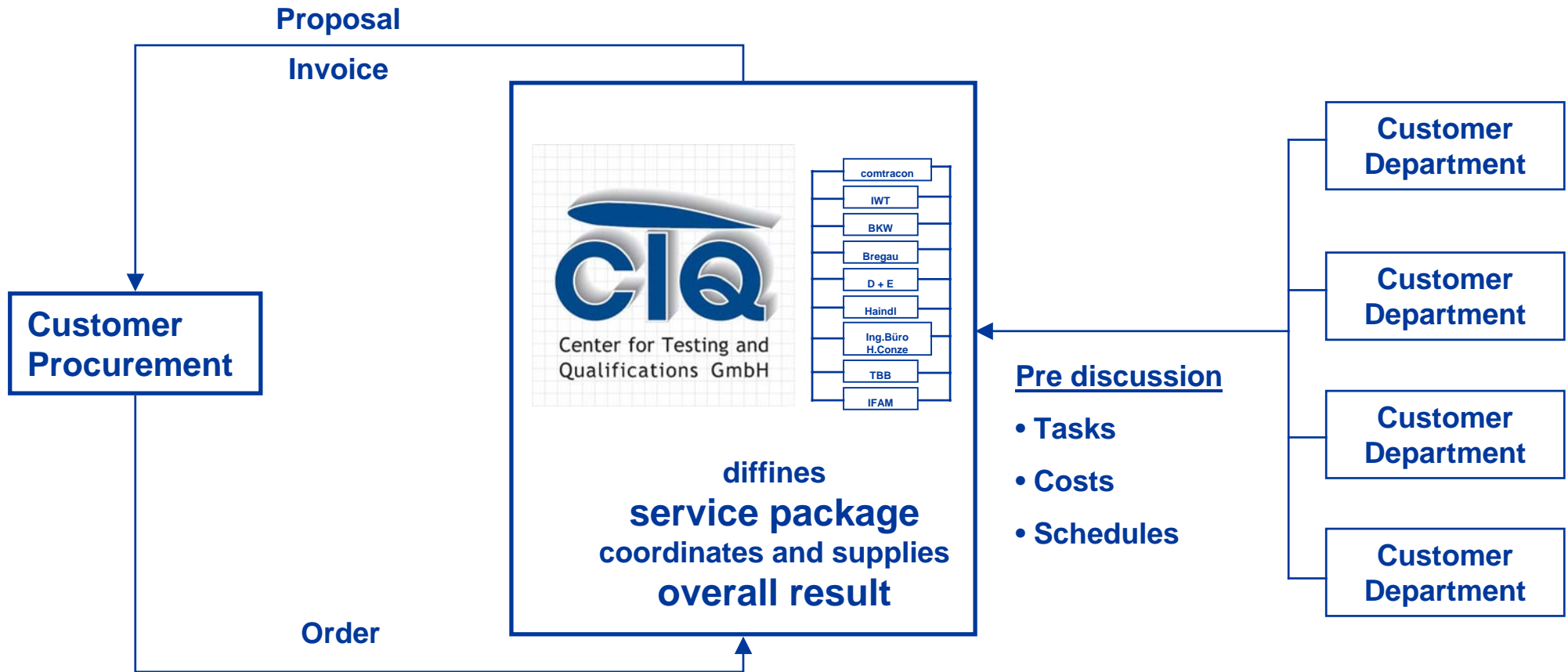
The different resources and skills are combined job oriented for the special project.

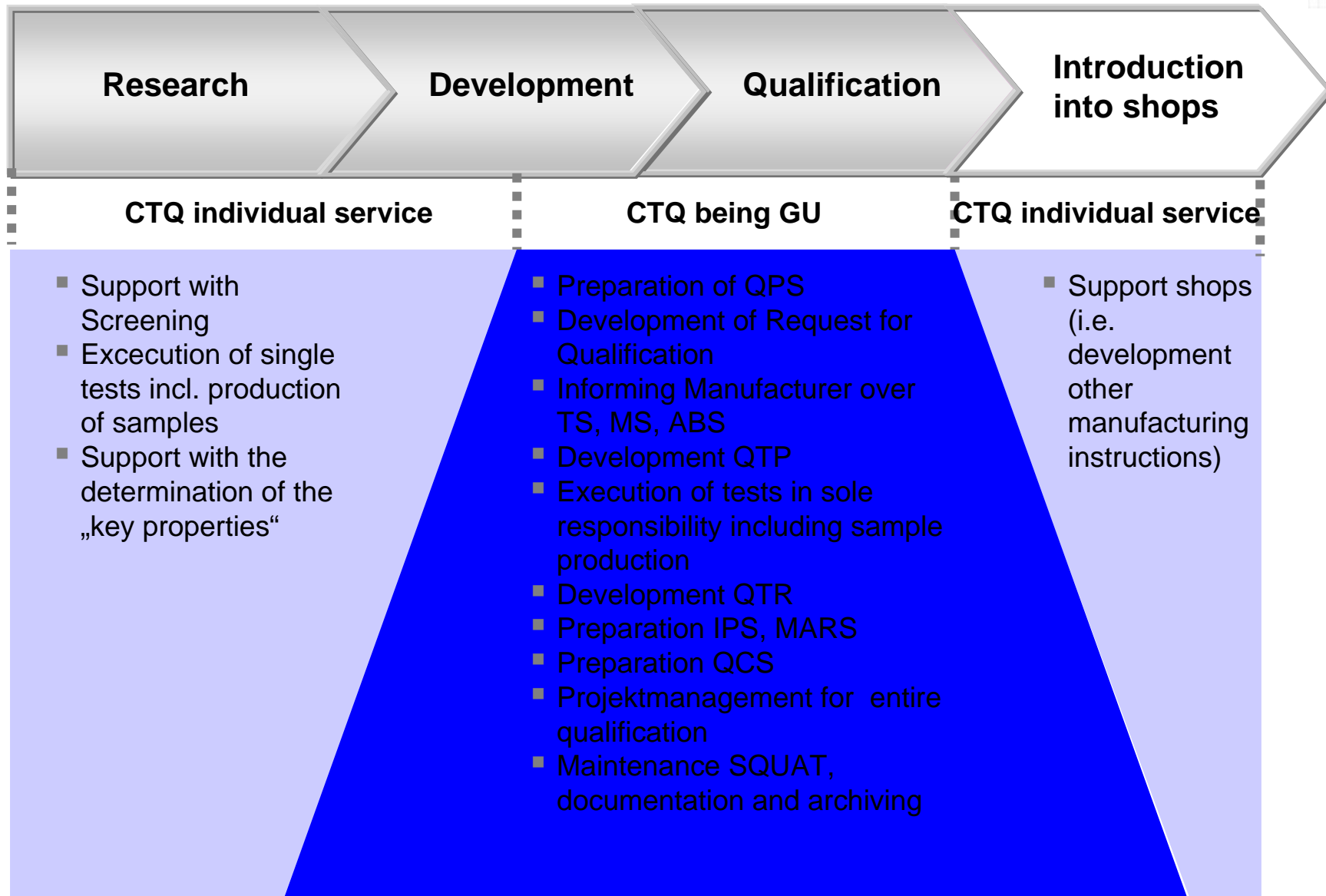
- Focal branch
 - Aviation



- Automotive







■ Materials

- Fiber- reinforced composites (FVW), fiber- reinforced plastics (FVK) and laminates
- Metallic materials
- Adhesives and polymers
- Lacquers

■ Processes

- Sticking technology, surface technique
- Painting technology
- Cleaning and drying procedure
- Safety / electronic systems
- Process development and optimization

■ Materials and structural testing

- Production of samples
- destructive and non destructive testing of materials
- Development, planning, execution and evaluation of tests

■ Management

- Project management
- Quality- and environment management
- Knowledge management
- Business processes optimization

■ Qualification

- Qualification and product release
- Project management

■ Training

- Production of precision shaped parts of plastics (glass fiber reinforced composites)
- Mould design and construction, tool making
- demonstrator and pilot sample making

- Production of samples by means of mechanical processing

- Adhesives and sticking technology, hybrid compounds, sealing compounds and sealing compound use
- Surface treatments, coatings and processes
- Drying processes
- Cleaner and cleaning method, etc.
- In each case manufacturing- and plant- tests
- If required also fiber reinforced composites

- **Mechanical testing**
- **static material inspection in temperature range from -100°C to 1000°C**
- **Zyclic material inspection at higher and lower temperatures and in corrosives solutions**
- **metallography / microscopy**
- **Analytics with OES, GDOES, ESCA, AAS, EDX**
- **Corrosion testing**
- **phase- und residual stress analytics**

- **Standard processes of instrumental chemical analytics**
- **wet chemical processes**
- **Microbiology tests**

- **Outdoor weathering tests, inspections and sample characterisation for adhesion and of adhesives, fiber reinforced composites, Hybrid-components, sealing components and application of sealing components, surface treatments, thin film processes, drying processes, cleaning and -processes**
- **Outdoor weathering tests and inspections of mechanical and material properties, decomposition and corrosion, process optimization**

- **Welding and Process-inspections**
- **Continuous production control**
- **Manufacturing release**
- **Acceptance with expert organizations**
- **Control of incoming goods**
- **Inspection of plants in use**
- **Damage investigations**

- Execution / support of qualification processes / product release of materials, processes as well as external or internal suppliers
- Collection, structuring, formulation, accompany of execution as well as the documentation of the sample production and examination
- Project management und controlling in qualification

- **Searches, Screening and Evaluation of materials, processes and technologies**
- **determining of specific material properties to check the principle applicability**
- **R&D for modern fiber- reinforced composites (FVW-components), fiber- reinforced plastics (FVK), for painting technology and surface technique as well as metalical materials**
- **Development of testing methods as well as development of testing manuals and specifications**
- **Project management of testing equipments**
- **Sample for materials and structural testing**

- **Process optimization (technical processes, business processes, ...)**
- **Project management (Project management consulting, interims project management)**
- **Quality management (system development, QM-manuals, certificierung)**
- **Environment management**
- **Knowledge management**
- **Safety technique / electrical systems / work security**
- **Training (materials and structural testing)**

- **Product development**
- **Design**
- **Company planning, external controlling, business administration**
- **Reorganisation processes / legal questions**
- **EDP projects (software selection, software engineering, project management)**

- **Process optimization for waste water treatment**
- **Energy optimization**
- **Substitution of dangerous goods**
- **Training (waste treatment, handling dangerous materials, work security)**

- **Production of samples**
- **Material and structural testing**
- **Qualification / product release**
- **Services**