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# **Technolution**

/corporate brochure



>the right development

>english





# /who are we?

**We are a project-based developer of electronics and software for technical systems. What makes us unique is our multidisciplinary approach. We use state-of-the-art technology and stand out thanks to our solid project management. As a technology partner, we are involved in the whole process from design to production and maintenance.**

## **>vision**

In order to remain successful, organisations need to innovate with technology. This is becoming more complex as many different disciplines are required to build a system or product - and to maintain it, a fact which is often forgotten. Organisations have to decide which essential disciplines they want to keep in-house and which to outsource to a competent, reliable, and committed partner. Technolution aims to assist clients in these complex technological issues, which involve exacting requirements.

## **>technology partner**

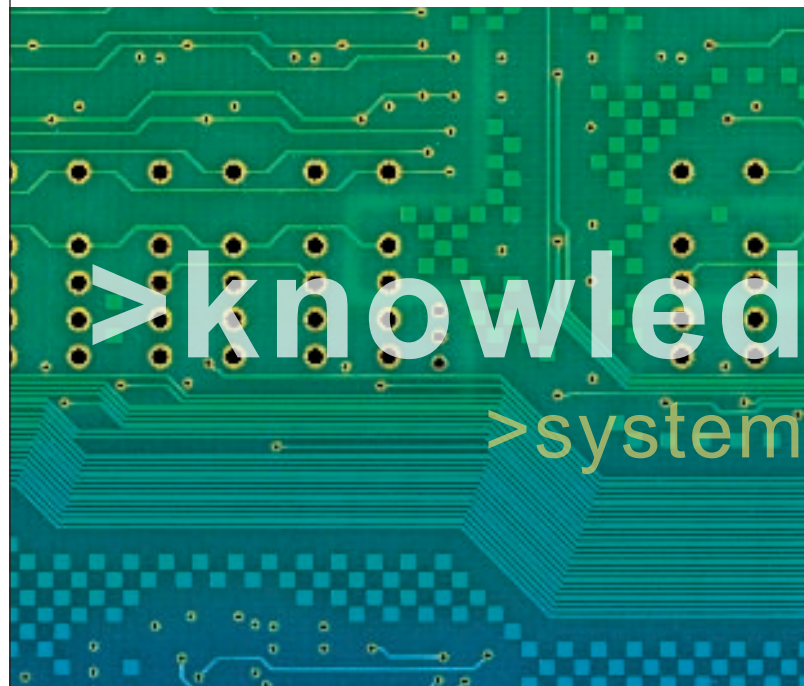
As a technology partner, Technolution uses its multidisciplinary development strategy to tackle technically complex and innovative projects. For embedded systems, we combine electronics, programmable logic and software early on in the design phase. Our strong technological background enables us to also realise robust ICT systems. Based on a positive business case, we start our projects working in knowledge teams, which are characterised by an informal and task-focused culture.

# /characteristics

Because of the open and informal character of Technolution, the doors to our offices are always open, reflecting our non-hierarchical way of thinking.

Our programme managers focus on developing new ideas together with clients, while our project managers work to make those ideas a reality. They are supported by project leaders and specialists with a technology background.

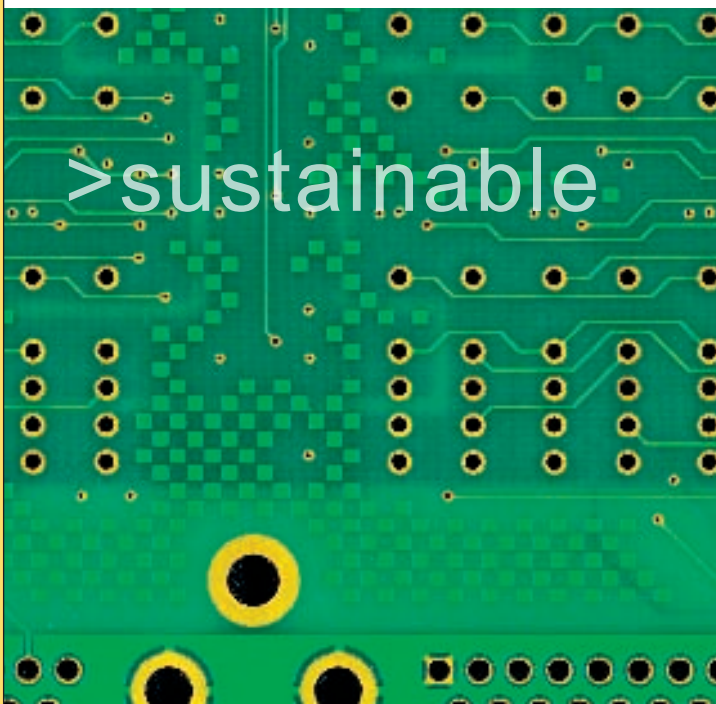
All projects are implemented by knowledge teams at our offices in Gouda.



## >functional approach

We prefer to take a functional approach to projects. Keeping the ultimate goal of the project in mind, we embark on the process of creating the final product in partnership with the client.

As a client, you provide the explanation of your goal and conditions and we set to work to find a technological solution to your problem.

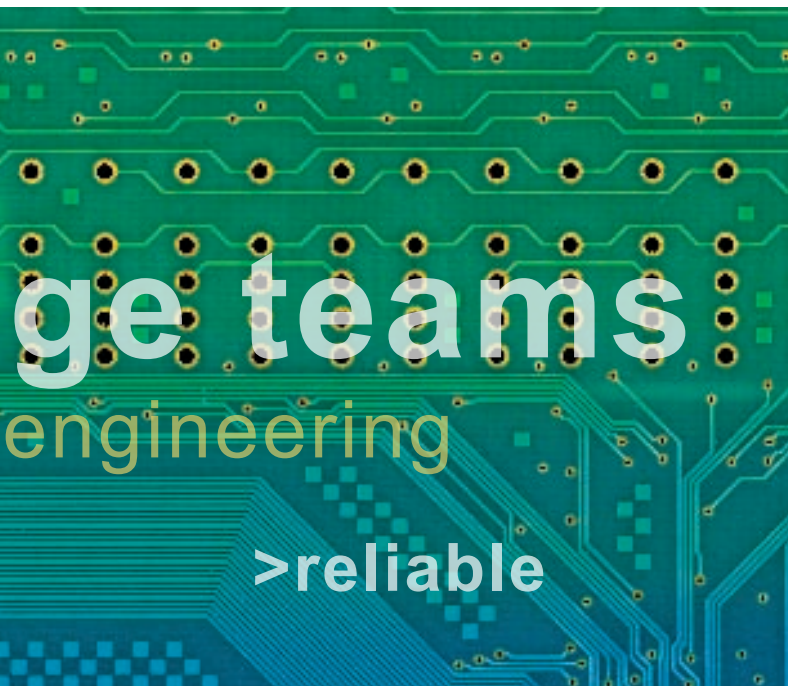


## >working method

Technolution's working method is multidisciplinary. From the start of a project, we bring together specialists in the required disciplines so they can work together closely.

Our project approach is to describe in advance which design, development and test activities we will carry out, how they are connected and what documentation we will draw up and use during these activities.

During the project execution phase, we make sure our processes and working method fit yours.



## >innovation

To us, innovation means constantly looking for better, smarter, and cheaper ways of applying technology. We do this by carrying out internal R&D projects; as a result, we are able to deploy the latest technologies without putting your project at risk.

Our views and philosophies are described in our technology statement:

[www.technolution.eu/technologystatement](http://www.technolution.eu/technologystatement)



## >ISO 9001 certified

We aim for the highest possible quality, and continuous improvement is our main objective.

Our certified methods of working increase our reliability and give you certainty about what you can expect from us.



## >corporate social responsibility

We are aware of our responsibilities towards the environment and our employees. This awareness is deeply rooted not only in our products and services, but also in our organisation and processes. We lead the way in developing processes and systems to comply with existing and future standards and rules. What's more, many of our projects focus on sustainability.

# /projects

We work on projects for clients in various fields, centring on our innovative solutions in electronics and software. We implement projects in the following fields: traffic and transport, high-tech, public order and safety, energy, and finance.

## >what do these fields have in common?

Often the same technology can be applied in different fields. For example, a traffic manager has many data flows at his or her disposal on various screens. The user interface used to clearly display important information from different sources on a single screen could also be used in a high-tech operating theatre.

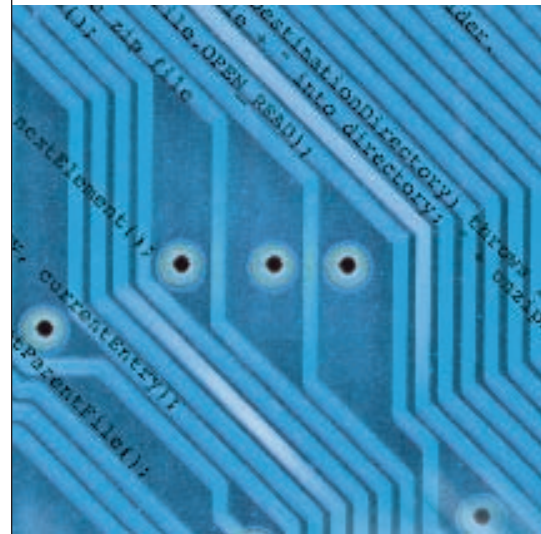
## >traffic and transport

Due to the increasing number of users, our roads and waterways are becoming ever more crowded. This increased volume of traffic can cause delays and result in dangerous situations. To solve this, we develop intelligent traffic systems.

Intelligent traffic systems help to:

- Spread the demand for traffic
- Increase the predictability of travel time
- Optimise the use of the road network
- Stimulate the flow of traffic
- Reduce the impact on the environment
- Avoid and deal with incidents

We develop these systems for various clients in the fields of traffic management, traffic enforcement, pay-as-you-drive, in-car telematics, railways and public transport.



>committed  
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## >high-tech

The functionality of systems is growing, and more and more electronics and software are used in both products and systems. Together with higher performance and reliability requirements, this makes producing and maintaining electronics and software increasingly complicated.

We would like to be your technology partner in these electronics and software developments.

We have experience in:

- Data acquisition
- High-speed communication
- Real-time image processing
- Motion control
- Mixed signal solutions

# ovative

## >energy

The approach in the energy market is changing, due to the introduction of sustainable new technologies, but also because clients are being offered new services.

As a technology partner, we provide support in developing smart and innovative technological energy solutions.

Some examples of these solutions are:

- Smart energy meter
- In-car applications for electric-powered driving
- Remote device management
- Customer care and billing



## >broad knowledge

## >other markets

Technolution also provides services in other markets.

For example:

- Business services
- Financial sector
- Utility companies
- Horticulture
- Vending machines
- Public order and safety



## /services

We are your partner during the complete life cycle of your product or system. Our service extends from devising the original idea, through development, to the end of life of the product or system. The objective of our made-to-measure project approach is to minimise your risks, so you know where you stand in advance.

### >advice and specification

Prior to starting the development process, we have to decide what requirements the new product has to meet and how it will function. So specifications are drawn up and choices made as to which architecture and technologies are to be used. We also look ahead to the testing and acceptance of the product by the client, and how management and maintenance will be organised at a later stage.

>giving advice

### >software technical information systems

Technical information systems (TIS) are crucial ICT systems that need to be available 24 hours a day. These systems usually consist of several scattered computer systems: a central system with powerful, redundantly executed servers, and decentralised data gathering or control systems. As these systems are crucial, it is important that data security, performance and manageability are addressed at a high technical level.

### >embedded software

Nowadays many appliances, whether large or small, contain embedded systems. The essence of embedded systems is that software is embedded in the electronics, allowing them to become intelligent. Embedded software is flexible and adjustable to future demands. It is also cheaper, as fewer electronics need to be developed.

>taking worries out of your hands

## >programmable logic

Programmable logic means configuring logic cells and other building blocks of a chip. The best-known logic chip is the Field Programmable Gate Array (FPGA). The hardware description language VHDL is used to define the configuration of the chip. This can be very important in intensive calculation applications that need to be performed fast, such as real-time image processing of large bitmaps.

## >electronics development

In electronics development, it is important to take account of the production feasibility of the system right from the start of the design. Our electronics designers work according to IPC norms and ensure that the principles of Design For eXcellence (DFX) are implemented. This means that requirements of feasibility, testability and cost control are met, guaranteeing not only reproducibility, but also that the system is of a higher quality. Knowledge of production technologies, test methods, mechanics, and thermodynamics is indispensable here.

## >testing and certification

When performing tests we check the product or system to compare actual behaviour with predicted behaviour. We use a test strategy tailored to the critical requirements of a product or system. This approach makes the tests more effective. Certification is testing with the objective of establishing whether the inclusion of a certain application is justified.

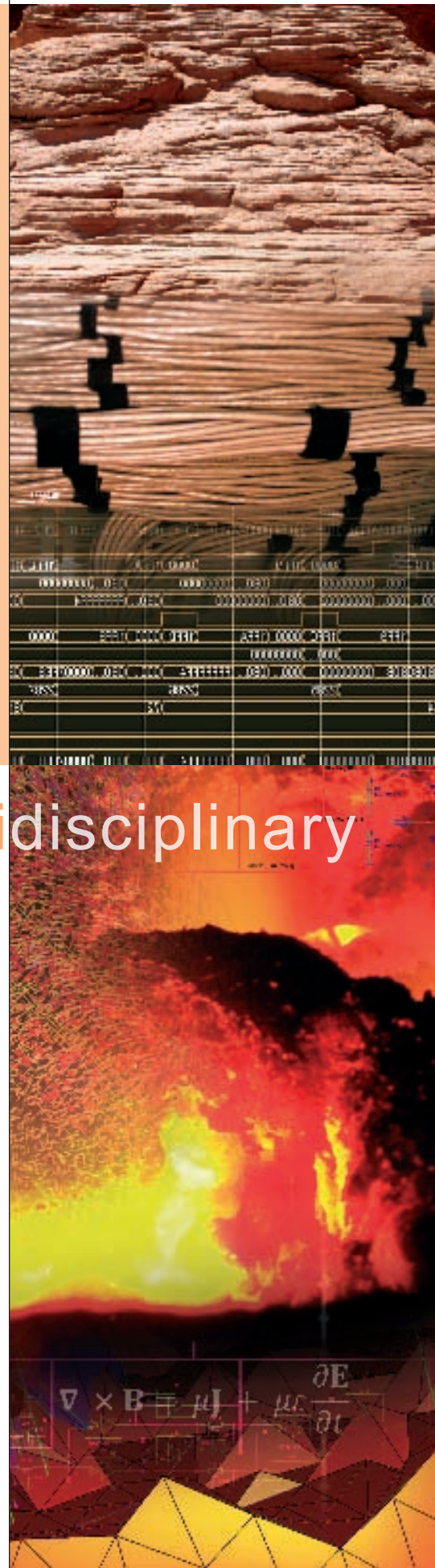
## >maintenance and support

When realising a system, the focus is mainly on designing, building and putting it into operation. An important subsequent phase is management and maintenance. Our service means we can guarantee that a system will be operational 24 hours a day, 7 days a week.

## >life cycle management

By applying life cycle management to a product, we ensure that the product can be produced, sold and supported from the design phase right through to the product's end of life. We can also manage the complete supply chain of the product.

## >multidisciplinary



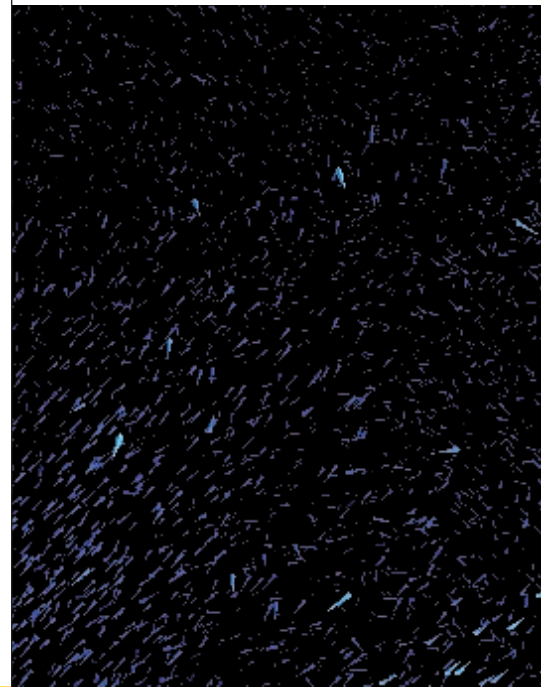
# /more information

You can find more information about us on our website

[www.technolution.eu](http://www.technolution.eu). You can also ask your contact for more information. We can supply you with specific information about a particular field or even a project. Please feel free to request more information or an introductory meeting with no obligation.

You can get in touch with us by e-mail at [info@technolution.eu](mailto:info@technolution.eu)

or by telephone on +31 (0)182 - 59 40 00.



## >acquisition process

In response to your request, one of our programme managers will contact you to arrange an introductory meeting. During this meeting, we will discuss the technical problems you are facing. After this inventory, we will devise possible solutions. In consultation with you, we will submit a proposal based on your business case.





>knowledge

>cooperation

>inventory



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