SPHEREA

CORPORATE SOCIAL RESPONSIBILITY

Responsible for our environmental footprint

Decarbonization

Innovation

Regional development

Raising awareness among our stakeholders

Committed to a sustainable product life cycle

Eco-design

Repair, reuse and recycle processes

Recycling

Respectful of people

Well-being and safety of our employees

Diverse and equal opportunities

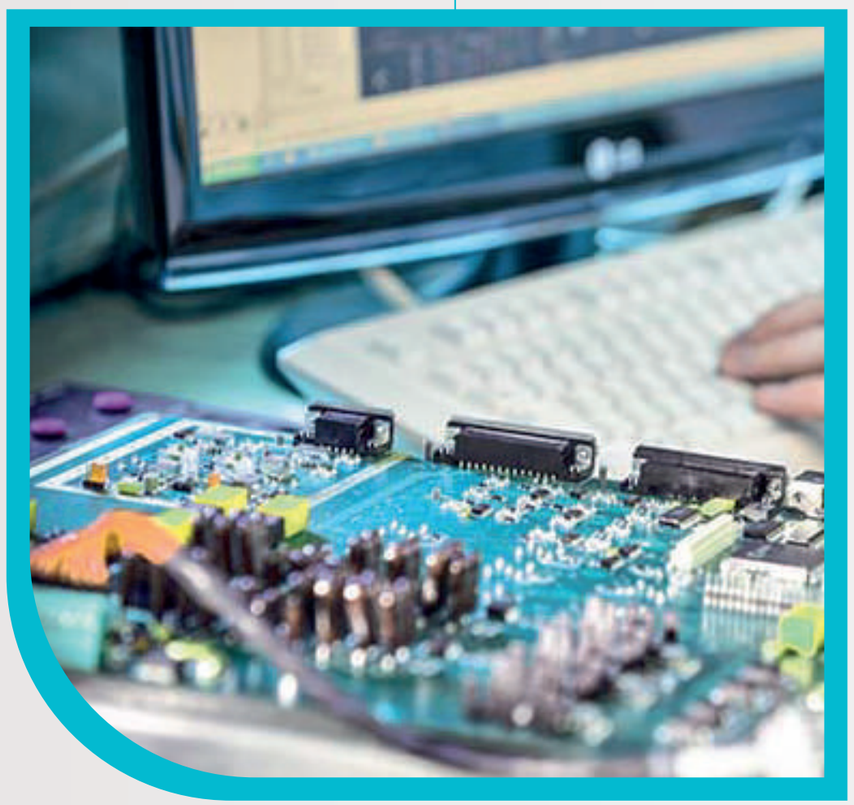
Support for employees with disabilities

Intergenerational collaboration

A E R O S P A C E

PCB Cloning

Avoid Redesign Costs



PCB Cloning

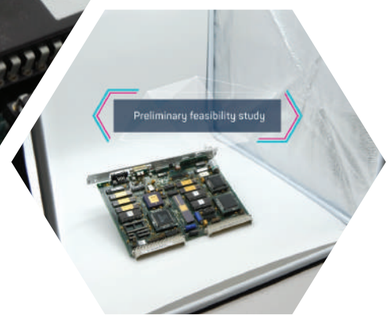
Trying to keep old systems running?

SPHEREA can provide functionally identical copies of electronic systems without the need for detailed design documentation.

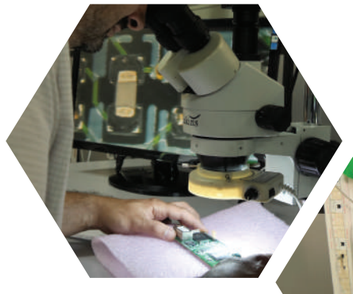
Using the latest electronic analysis techniques, SPHEREA Test & Services can automate the cloning of existing electronic systems; often without any design or manufacturing data.

We've successfully cloned hundreds of printed circuit boards from simple control units to complex computers and from standard industrial applications to safety-critical Military, Aviation, Nuclear power and Transport systems.

FAISABILITY

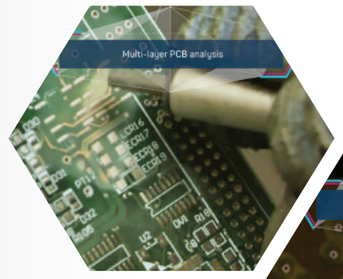


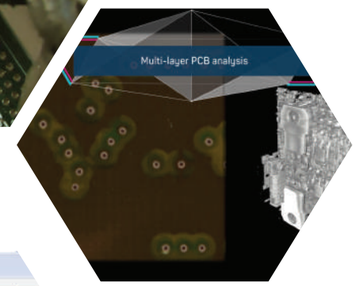
CLONING STUDIES

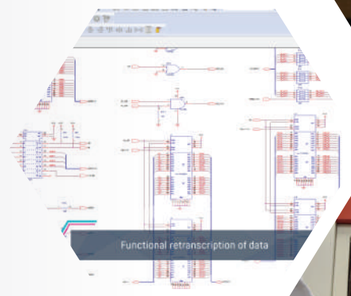


OUR APPROACH

DESIGN ANALYSIS AND COMPONENT SOURCING







PROTOTYPE AND VERIFICATION

NO DESIGN OR DATA? NOT A PROBLEM

Simply give us a functioning sample to copy and we can produce an electrically equivalent clone.

Any additional design data will help but isn't always essential.

We take an existing printed circuit board and use advanced automated test tools to generate an electronic model of your physical design.

This includes data on the connection of points (a netlist), where points are placed and how they should look on a working unit (an electrical signature).

ELECTRONIC CLONING CAN BE USER FOR

- Multi-layer boards
- Coated boards
- Military specification systems
- Aviation specification systems
- Safety critical systems

OUR METHOD ALLOW FOR YOU TO RETRIEVE DATA

- Routing analysis
- Component characteristics
- Design data
- Production data
- Electrical test report