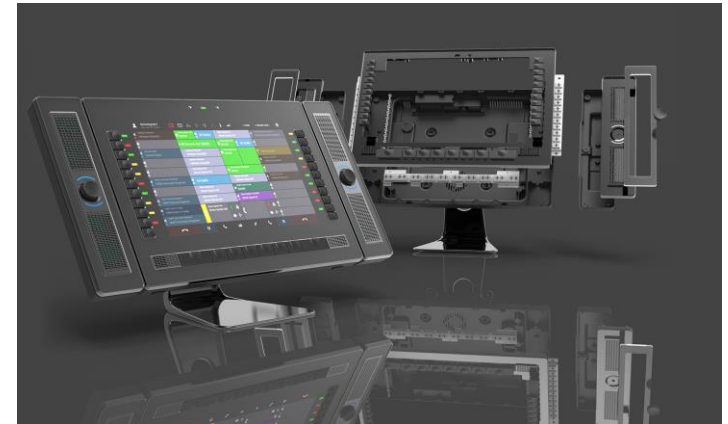


industrialpartners

THINK DISCOVER DO



**DESIGN DEVELOPMENT, engineering
and production of a small sized series
for a new communication system**



FMEA-Workshop
Trendscan
Materialscan
Competition overview
Specification sheet
Ergonomic studies

Revision Design Phase
3D-CAD-Data
Elaborated technical solutions
Case structure
Assembling process
Premodels

Design engineering
3D-CAD-Data
Functional models
Rapid prototypes
Assembling process

› 1. Concept › 2. Industrialdesign › 3. Design Engineering › 4. Prototyping › 5. Moulds › 6. Production



Preliminary Design Phase
3D-CAD-Data
Basic technical solution



1:1 Scale prototype



Project schedule for Speakerbus Ltd., UK
Development of a new communication system TRADECOM

Task

› Task	› Results
Redesign of a new communication system TRADECOM Elaboration of an assembling concept for montage purposes Delivery of all parts for our customer	1:1 Prototype 3D-Data Sourcing of manufacturers of the moulds and parts Binding offer for the production of all metal and plastic parts Quality control during production of all parts Delivery of all parts to our customer

Project schedule for Speakerbus Ltd., UK

Development of a new communication system TRADECOM

1. Concept › 2. Industrialdesign › 3. Design Engineering › 4. Prototyping › 5. Moulds › 6. Production

› Tools

Kick-Off-Workshop
with FMEA
Trendscan
Materialscan
Competition overview
Ergonomic and usability studies

› Results

Design briefing
Specification sheet
Basic technical solutions

Project schedule for Speakerbus Ltd., UK
Development of a new communication system TRADECOM



1. Concept › **2. Industrial design** › 3. Design Engineering › 4. Prototyping › 5. Moulds › 6. Production

› **Tools**

Preliminary Design Phase
Revision Design Phase

Presentation after each phase
Intermediate presentations

3D-CAD
Premodels

› **Results**

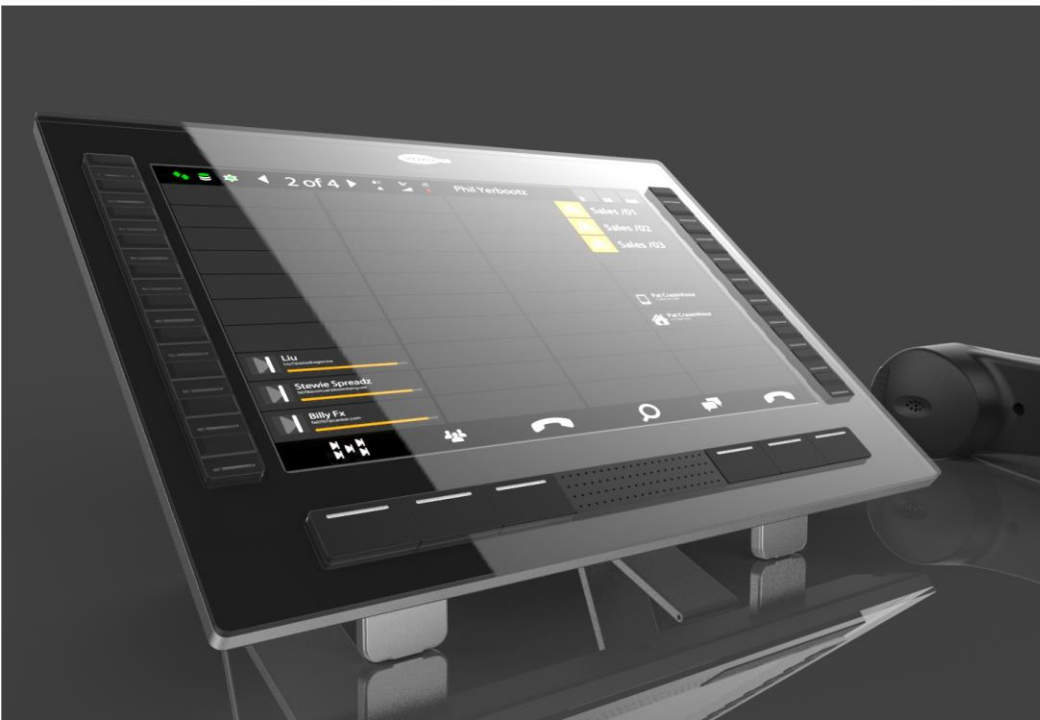
Different design variants
Basic technical solutions
Basic assembling concept for the case
Basic concept for service purposes

Elaboration of a selected design variant
Premodel on a scale 1:1
Elaborated technical solutions
Proposals for product graphic design

Briefing of selected mould manufacturer
Offer for moulds and parts

Project schedule for Speakerbus Ltd., UK

Development of a new communication system TRADECOM





Project schedule for Speakerbus Ltd., UK
Development of a new communication system TRADECOM

Developed by **industrialpartners**



Project schedule for Speakerbus Ltd., UK
Development of a new communication system TRADECOM

Developed by **industrialpartners**

1. Concept › 2. Industrialdesign › **3. Design Engineering** › 4. Prototyping › 5. Moulds › 6. Production

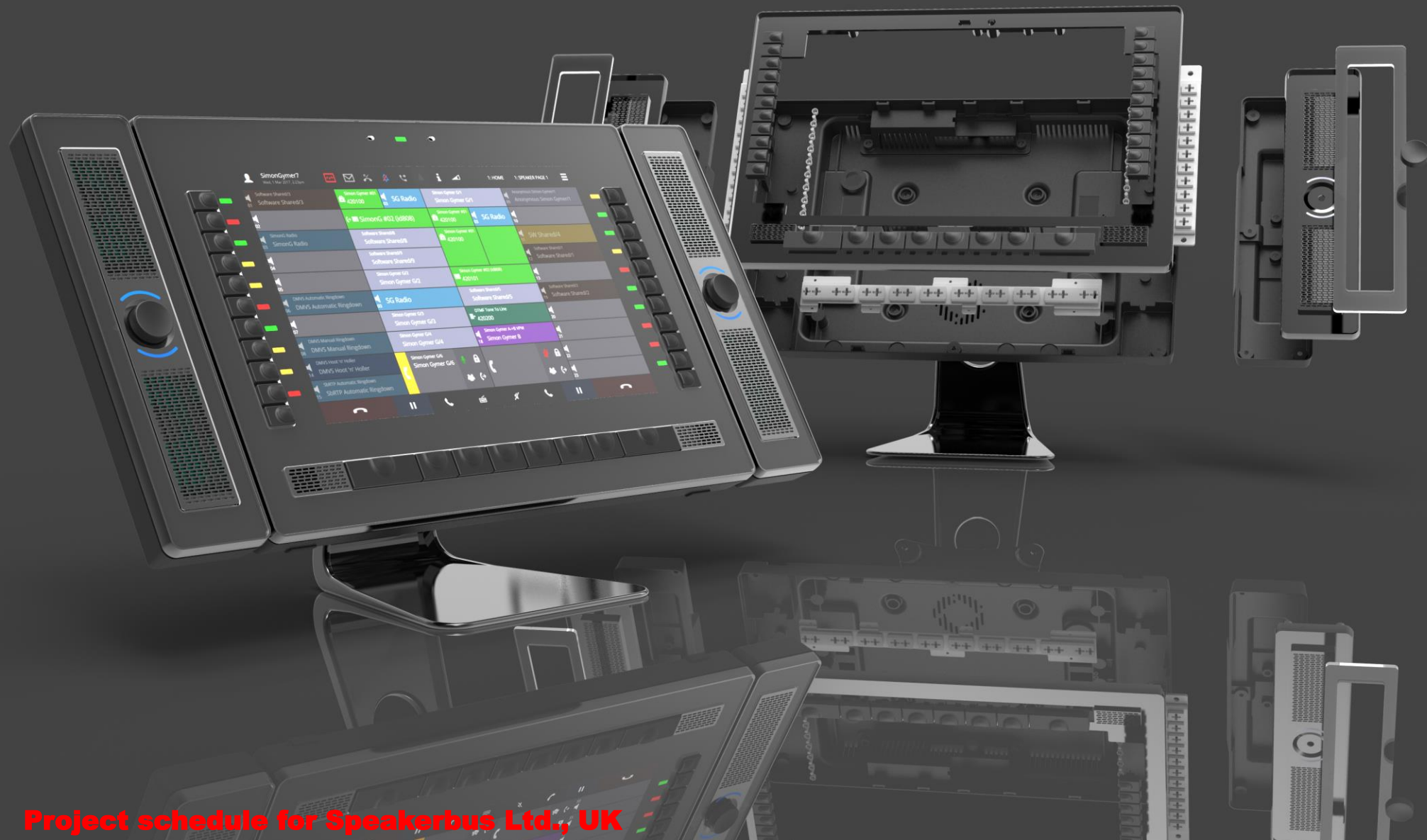
› **Tools**

Solidworks
Rapid-Prototyping
Premodels

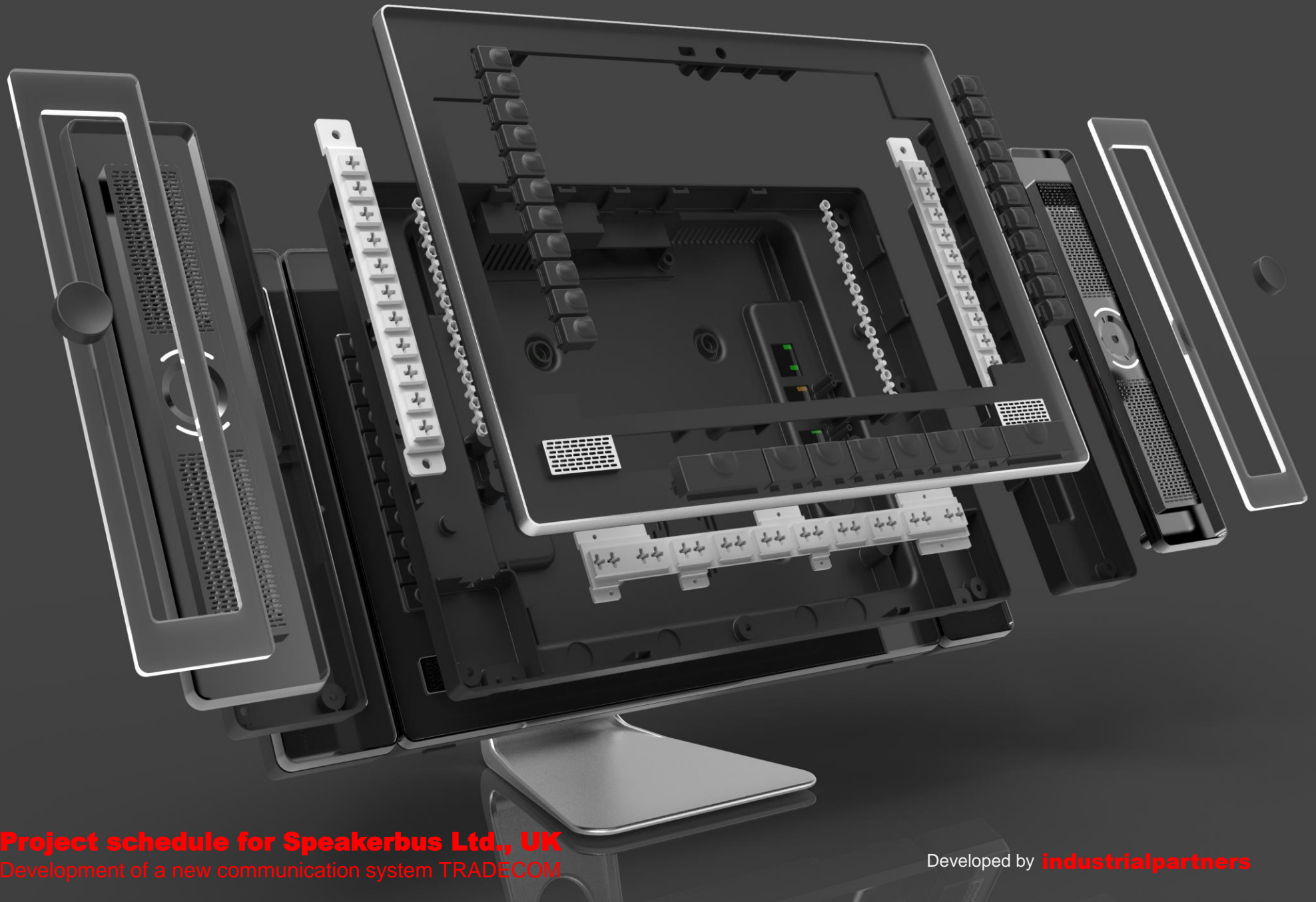
› **Results**

3D-Data
2D-Drawings
Elaborated assembling concept
Elaborated service concept

Binding offer for moulds and parts



Project schedule for Speakerbus Ltd., UK
Development of a new communication system TRADECOM



Project schedule for Speakerbus Ltd., UK
Development of a new communication system TRADECOM

Developed by **industrialpartners**

1. Concept › 2. Industrialdesign › 3. Design engineering › **4. Prototyping** › 5. Moulds › 6. Production

› **Tools**

Rapid-Prototyping

› **Results**

1:1 Scale Prototype



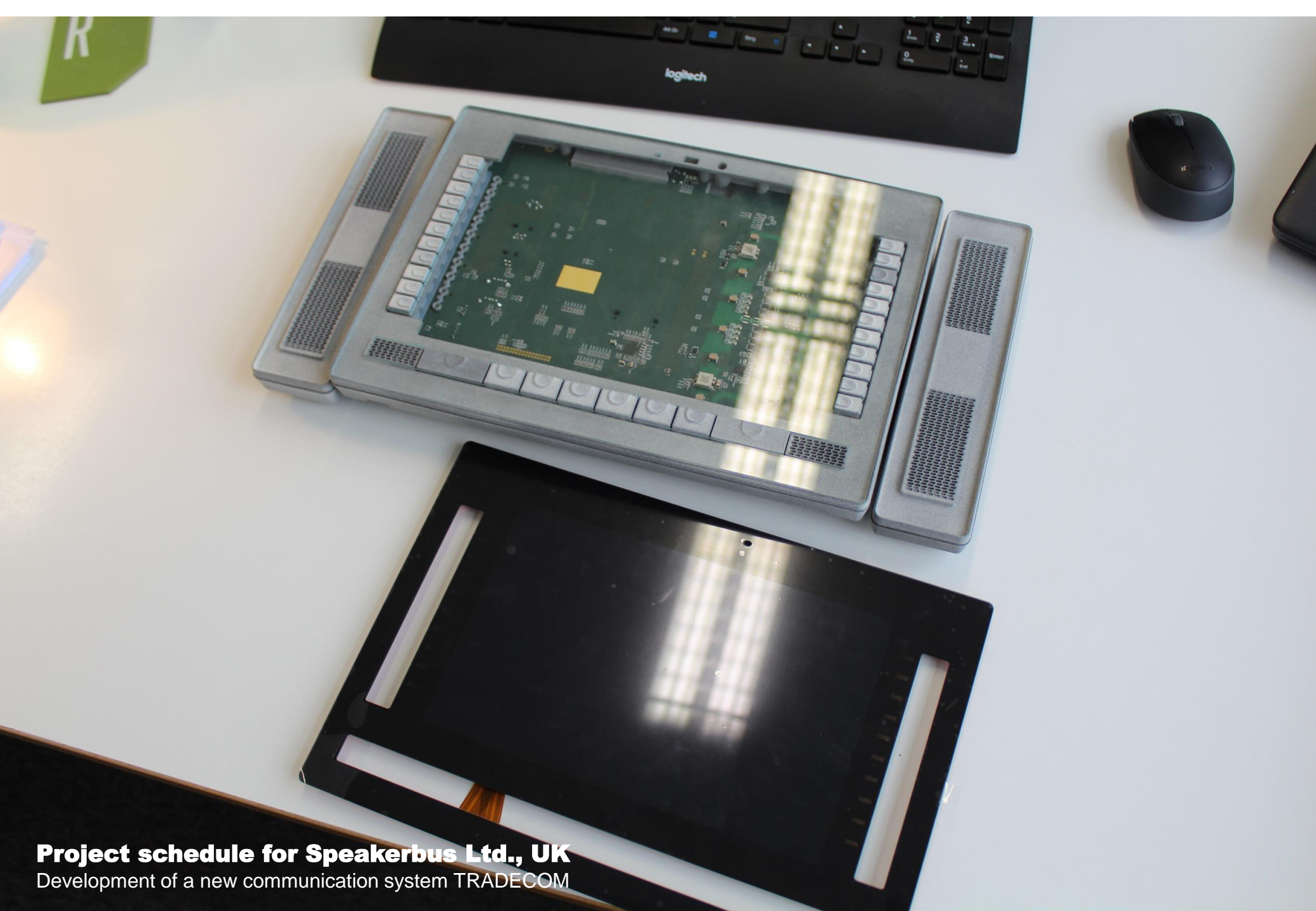
Project schedule for Speakerbus Ltd., UK
Development of a new communication system TRADECOM



Project schedule for Speakerbus Ltd., UK
Development of a new communication system TRADECOM



Project schedule for Speakerbus Ltd., UK
Development of a new communication system TRADECOM



Project schedule for Speakerbus Ltd., UK

Development of a new communication system TRADECOM

1. Concept › 2. Industrialdesign › 3. Design engineering › 4. Prototyping › 5. Moulds › **6. Production**

› **Tools**

Production of a small
sized series of the current
communication system
TRADECOM

› **Results**

20 housing sets produced with
HP Multi Jet Fusion



Project schedule for Speakerbus Ltd., UK
Development of a new communication system TRADECOM



1. Concept › 2. Industrial design › 3. Design engineering › 4. Prototyping › **5. Moulds** › 6. Production

› Tools

Mould concept
Quality control
Mould design reviews
Time schedule reviews
Supplier reviews

Moldflow analysis including
wrapage and shrinking
investigations

› Results

Injection moulds
industrialization



Project schedule for HUMAN GmbH, Germany
Engineering and manufacturing of moulds

Developed by **industrialpartners**

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