

Protocol Stack Implementation



TRIANGLE
MICROWORKS, INC.

SOLUTIONS FOR COMMUNICATION PROTOCOL DEVELOPMENT

www.TriangleMicroWorks.com

codewerk

Consulting | Development | Engineering

System development for industrial communication and automation systems

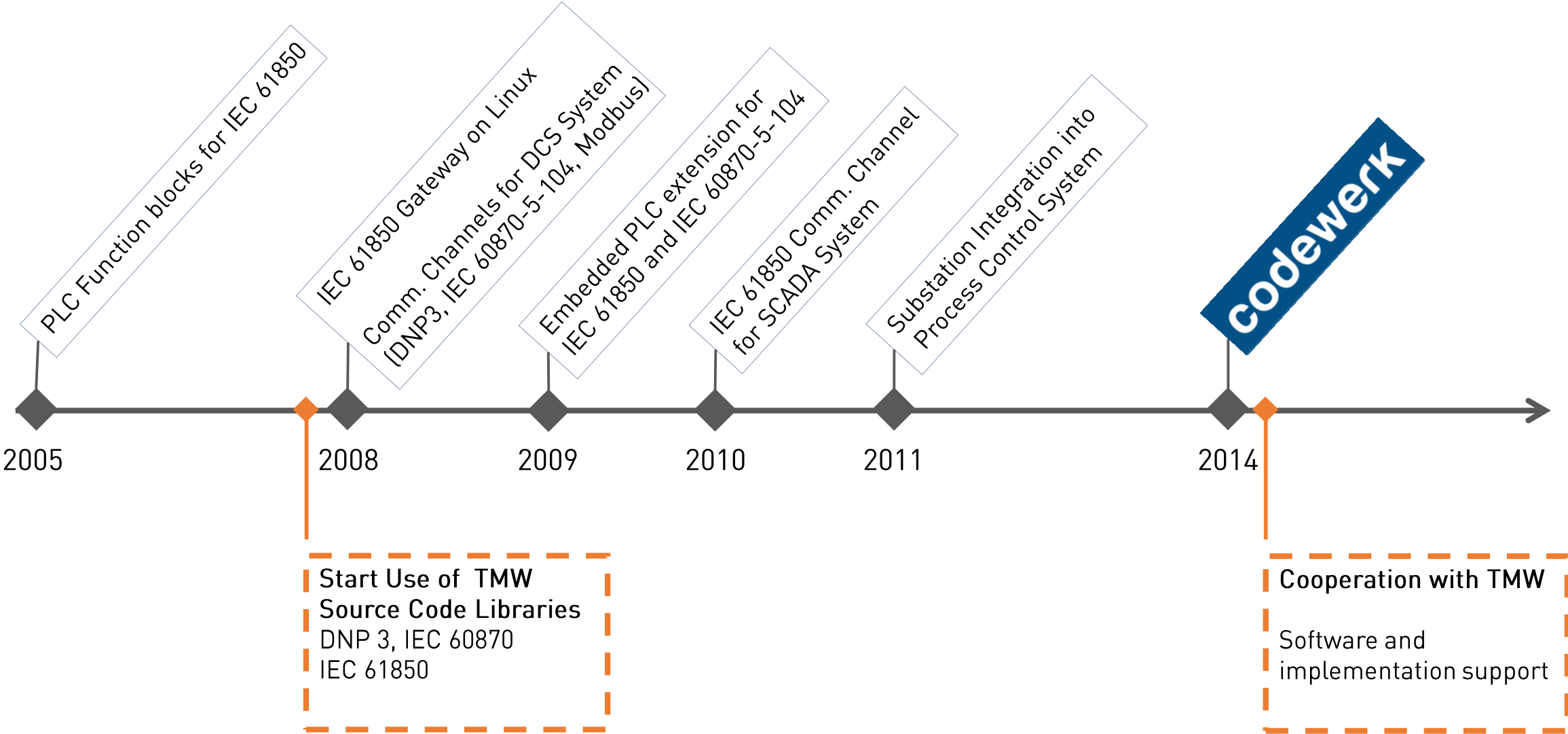
- Founded 2014
- Located in Karlsruhe, Germany

We offer

- Consulting
- Development
- Engineering



Our Background

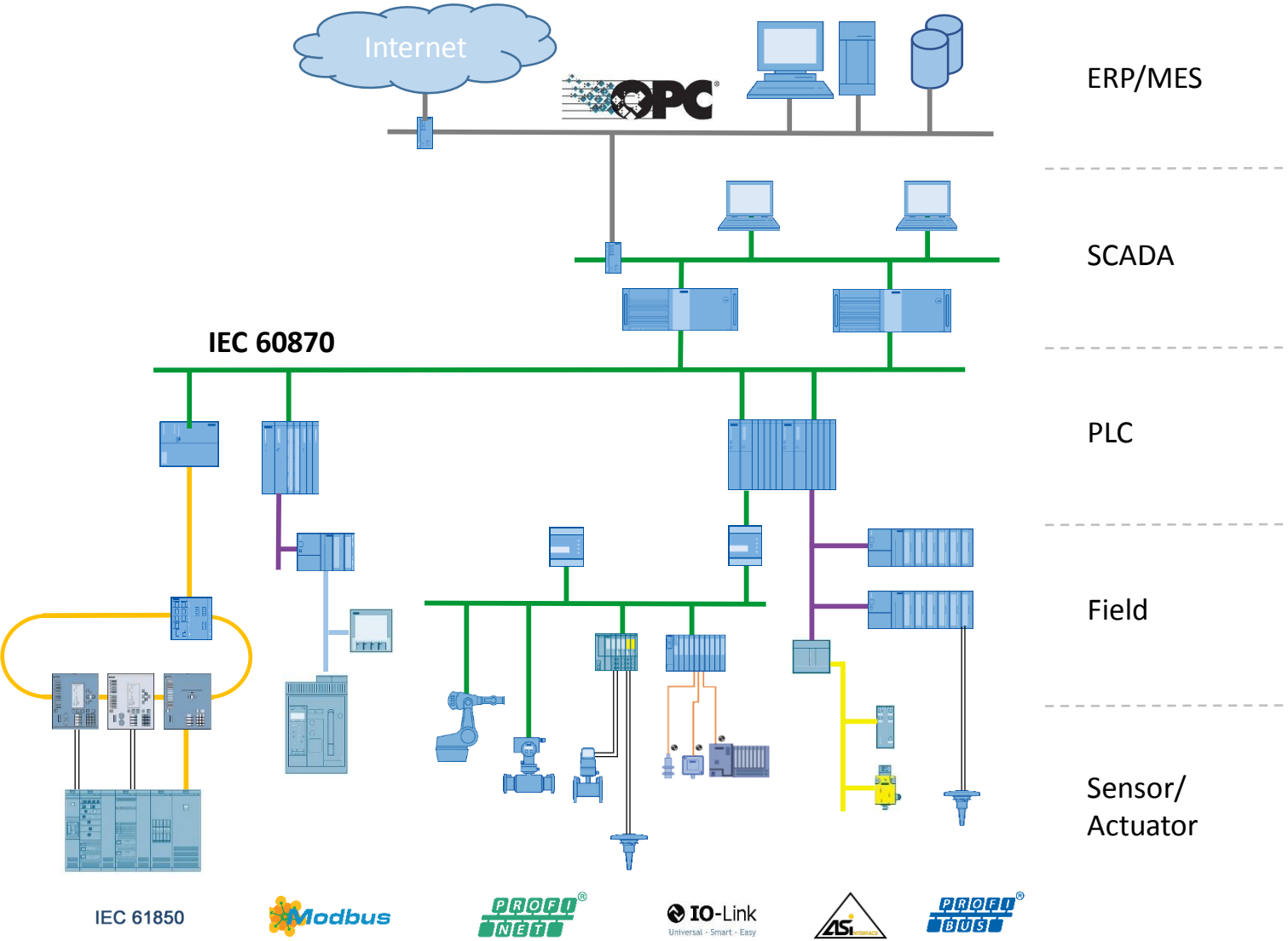


Protocol Know How for industry

- Office-level
 - OPC UA/DA/HDA
 - ...

- PLC level
 - Profinet IO/RT/IRT
 - Profibus DP/PA
 - Modbus TCP/RTU
 - IEC 61850
 - IEC 60870
 - ...

- Field/IO level
 - AS-Interface
 - IO-Link
 - Modbus TCP/RTU
 - IEC 61850
 - IEC 60870
 - DNP3
 - CAN open
 - EtherCAT
 - M-Bus
 - Foundation Fieldbus
 - HART
 - ...



Cooperation with Triangle Microworks



Wide product portfolio

Source Code libraries for communication protocols

Test and simulation Tools

Gateway products

Active member of several committees for standardization

Wide solution portfolio

Implementation services for communication protocols

Support for test and simulation tools

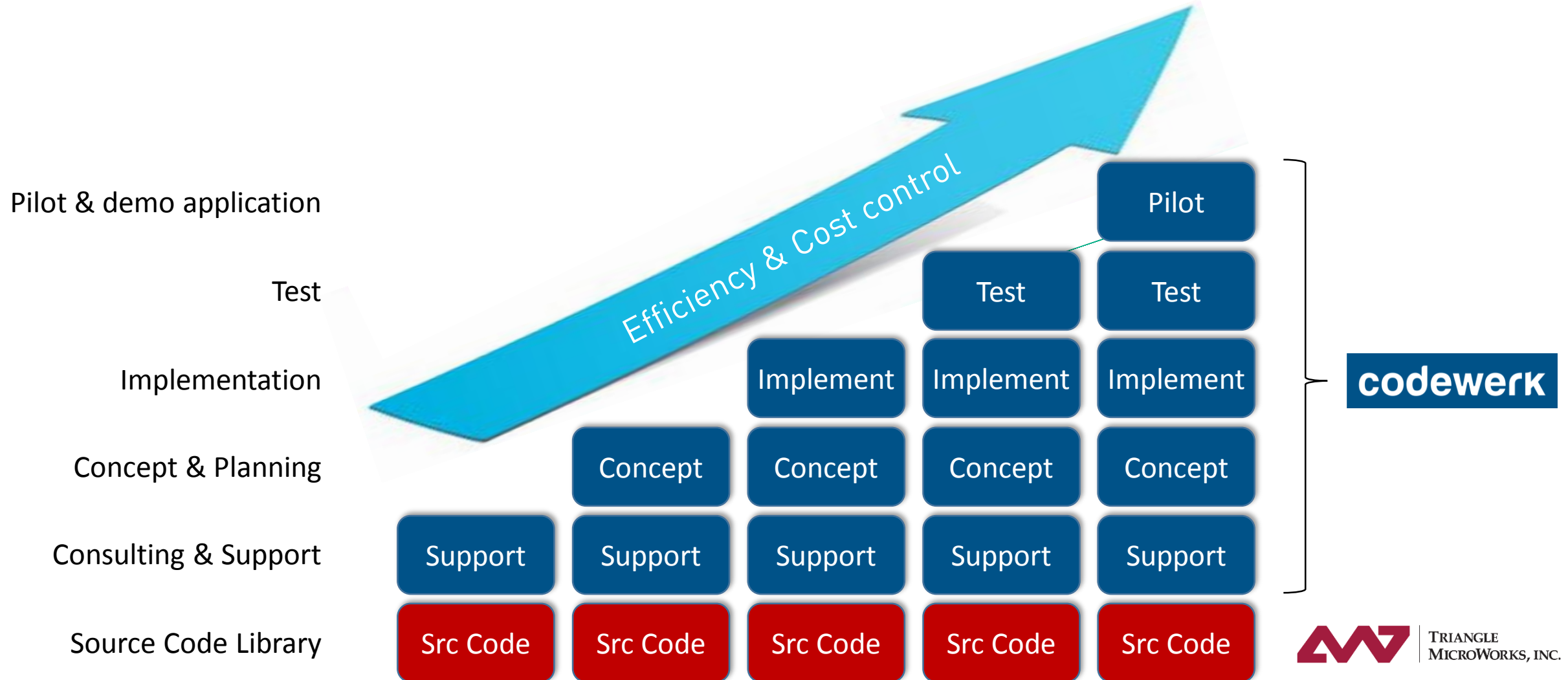
Development and use of gateways

Validation and testing of communication interfaces

Longtime cooperation with Triangle Microworks

Codewerk takes care of Triangle MicroWorks customers in Europe.

Flexible Cooperation options according to customer requirements



Support

Technical consulting and support

- Source Code libraries
- Implementation support
- Troubleshooting

Test

Test

- Application test
- Unit and system test
- Certification processes
- Test automation

Concept

Concepts and Specifications

- Feasibility studies, proof of concept
- System integration
- Feature specification
- Design specification

Pilot

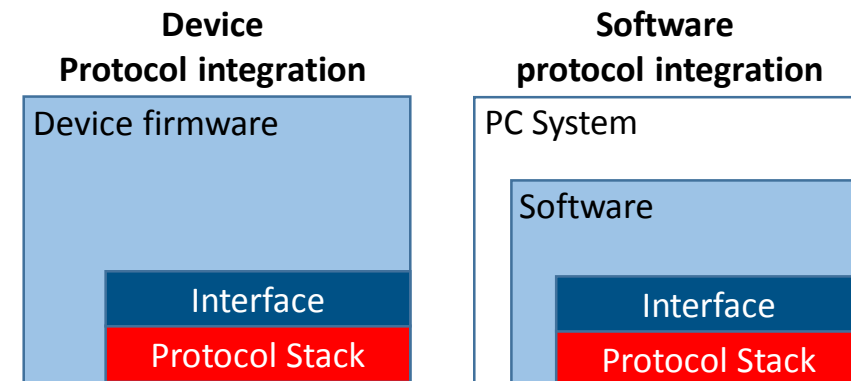
Pilot and demo applications

- Implementation of demo applications
- Pilot customer support
- Commissioning

Implement

Implementation

- Specific modules or complete solutions
- Protocol stacks
- Interfaces
- Gateway solutions
- Engineering Tools



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