



## Technology Supplier and Service Provider

### ESYSE

- › Succeeded in designing of Embedded Systems with highly integrated hard- and software solutions including PROFINET, PROFIBUS etc.



Your contact: PROFdrive@esyse.com

### Hilscher Gesellschaft für Systemautomation mbH

- › netX ASIC technology for fieldbus and Real-Time Ethernet



Your contact: PROFdrive@hilscher.

### HMS Industrial Networks

- › PROFINET, PROFdrive, PROFIsafe & PROFInergy connectivity solutions



Your contact: PROFdrive@hms-networks.de

### MESCO

- › Customer specific hardware / software development for drives, PROFIsafe and Functional Safety



Your contact: info@mesco-engineering.com

### Siemens

- › ERTEC Asic Technology, integration support, trainings and technical support



Your contact: PROFdrive.industry@siemens.com

Please find further information about the Community Project on the PI Webseite:



[www.profibus.com/PROFdriveCommunityProject](http://www.profibus.com/PROFdriveCommunityProject)

### Contact:

#### PI - Working Group Drives

Group Leader Marketing Drives:  
alexander.tully@profibus.com

Group Leader PROFdrive Technology:  
andreas.uhl@profibus.com

PROFIBUS Nutzerorganisation e. V. (PNO)  
Member of PROFIBUS & PROFINET International (PI)  
Haid-und-Neu-Str. 7 • 76131 Karlsruhe  
Fon: +49 721 96 58 590  
E-Mail: info@profibus.com  
[www.profibus.com](http://www.profibus.com) • [www.profinet.com](http://www.profinet.com)

## Community Project



Your way to PROFdrive & Encoder



## Community Project

On the basis of a so called „Community Project“, the responsible workinggroup offers a base implementation of the actual PROFIdrive Profile in Source Code, **free of charge and licence** to all interested users and members of the technology.

Three Application Classes (AC) are defined and handled in the Community Project:

- › AC1 - Frequency converter
- › AC3 - Drives with positioning function
- › AC4 - Synchronous servo applications

This development represents a de facto standard reference implementation for drive technology.

## Current existing Hardware Platforms

### Devices:

The PROFIdrive and Encoder Layer for devices on PROFINET is available on a lot of different platforms:

- › Anybus (HMS)
- › ERTEC (Siemens, Renesas)
- › FPGA (Softing)
- › netX-Family (Hilscher)
- › SIL3 Design Package (MESCO)

### Controller:

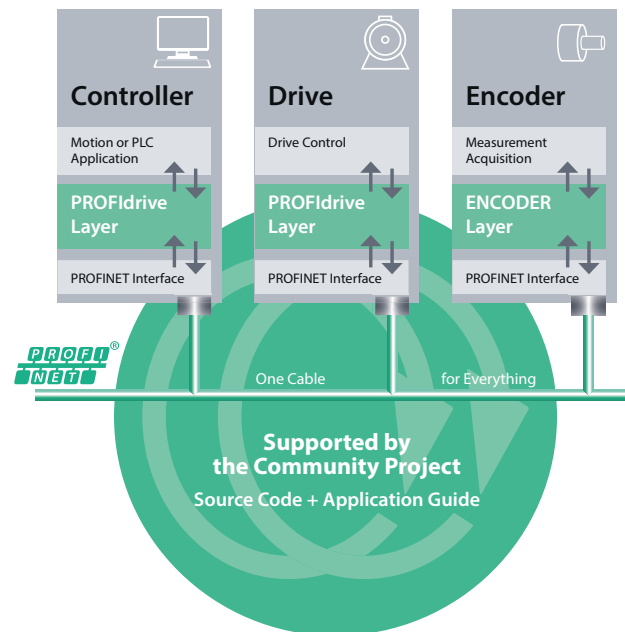
Also the PROFIdrive Profile for Controller on PROFINET is available for:

- › ERTEC (Siemens, Renesas)
- › netX-Family (Hilscher)
- › More will come

## How to Implement

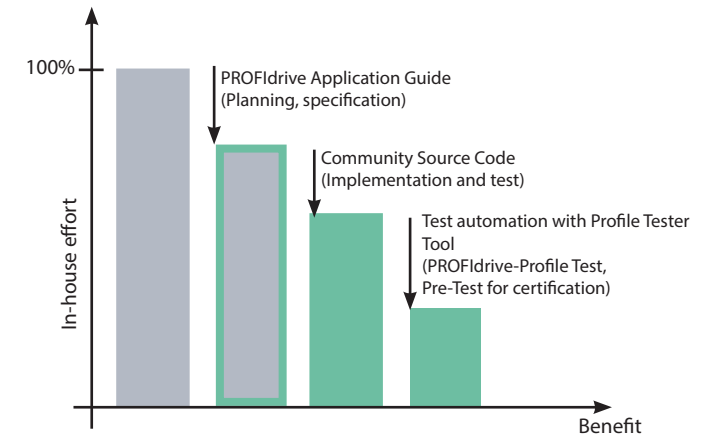
How to plan and start the implementation with best practice:

1. Define your requirements
2. Check the requirements, based on the „PROFIdrive Implementation Guide“
3. Check the PROFIdrive Profile Source Code
4. The Decision for „make or buy“
5. Setup the PROFIdrive Profile Tester
6. Start the implementation
  - a. Telegram 1 (AC1, Speed control)
  - b. Telegram 2 (AC1 + IRT)
  - c. Telegram 3 (AC4, Encoder channel)
  - d. Telegram 5 (AC4 + DSC)
  - e. Telegram 105 (AC4 + DSC + Torque control)



## Your Benefits

Reduce the cost of implementation



## What is available at the Community Project

- › PROFIdrive Implementation Guide AC1 + AC4
- › PROFIdrive Profile Device Source Code
  - › Drive Application Class 4 + Encoder Class 3
- › PROFIdrive Profile Controller Source Code)
  - › PROFIdrive Controller AC1
  - › PROFIdrive Controller AC4
  - › PROFIdrive Controller Isochronous Operation
- › Version overview
  - › Change log
  - › Release notes