

LAPP ASIA PACIFIC WEBINAR SERIES 2022

PREDICTIVE  
MAINTENANCE  
SIMPLIFIED

**LAPP**

# THE SPEAKER



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Product Management Industrial  
Communication

LAPP ASIA PACIFIC WEBINAR SERIES 2022

# PREDICTIVE MAINTENANCE SIMPLIFIED



# ETHERLINE® GUARD

Product Launch



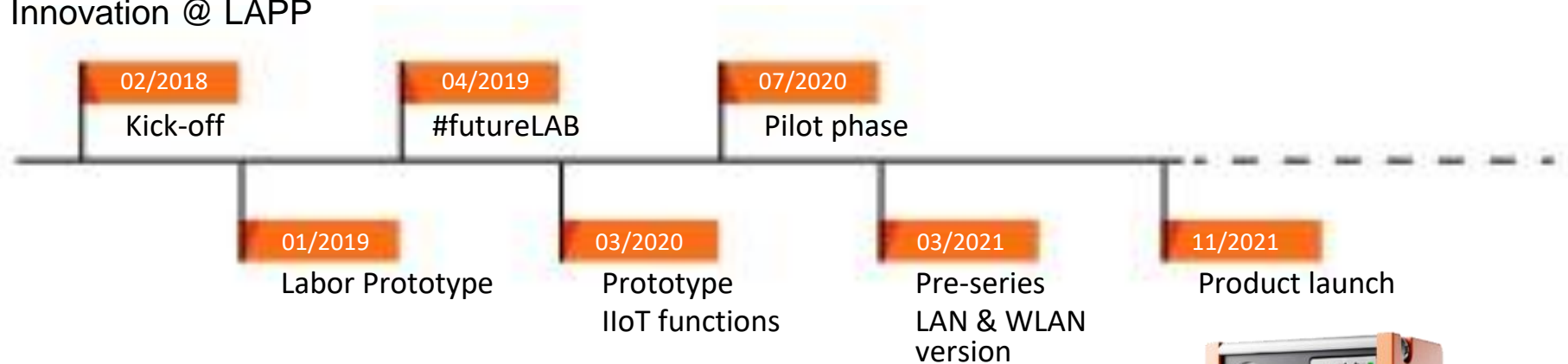
# ETHERLINE® GUARD

Concept and development



# ETHERLINE® GUARD

Innovation @ LAPP



# ETHERLINE® GUARD

## Monitoring of data cables

### ADVANTAGES

- Increased availability due to plannable downtimes
- Reduced maintenance costs
- Simple setup & integration into the existing network through "easy-teach-in".
- Indication of the current performance of the data cable in percent



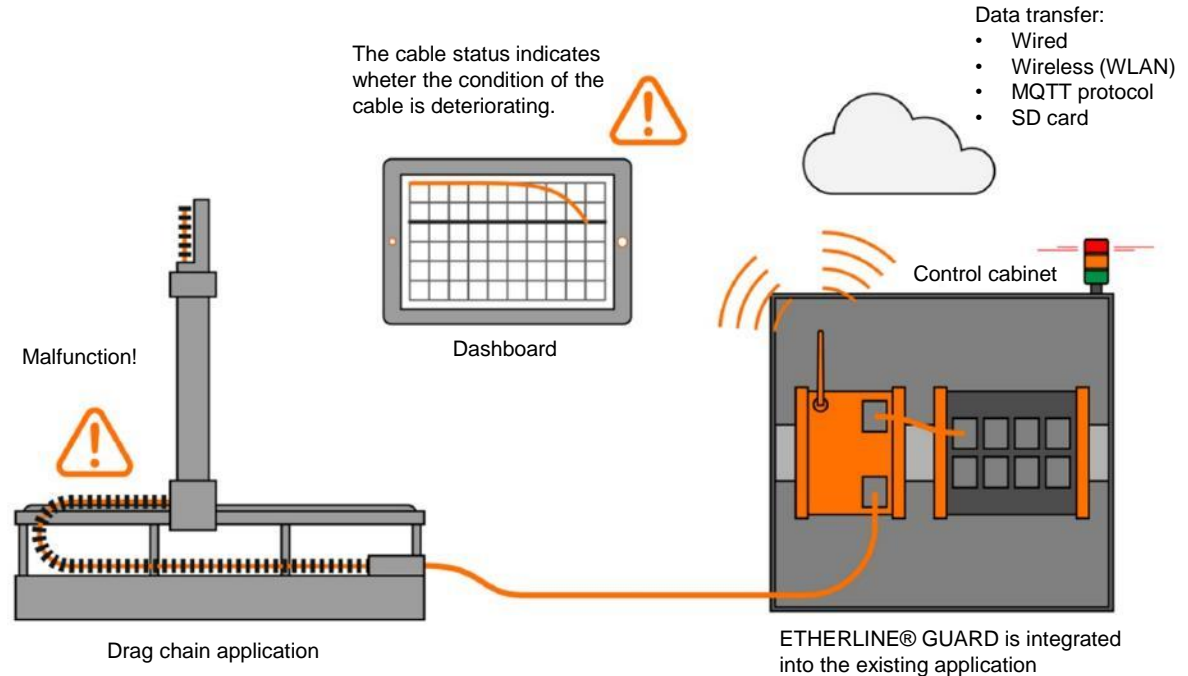
By monitoring the "wear and tear" during operation  
easier planning of maintenance intervals

# Availability

## Reduced risk of failure

### AREAS OF APPLICATION

- In dynamic applications and critical processes
- With expensive downtimes
- In harsh industrial environments
- Automotive/ Intralogistics/ Medical



Increase in plant and machine availability and reduction of the risk of failure

# One device

## Numerous options

### Supported cable standards:

- Ethernet-cable 100BASE-TX
- Min. categorie Cat.5 (2 Pairs (TP), tested up to 100 MHz, Data rate of 100 Mbit/s)
- Ethernet-Communication standard baseband
- Max. length 100 m

### Supported protocols:

- Ethernet
- PROFINET, CC-Link IE, EtherCat®, EtherNet/IP®, Modbus TCP, Powerlink®



WiFi



LAN

ETHERLINE® Cat.5 Patchcord  
(RJ45, straight/angled/OE)

ETHERLINE® FD  
Cable Cat.5

RJ45 fieldmountable  
Connector (straight/angled)





# Optimal use

With following Products



## ETHERLINE® Cat.5e FD

Cat.5e for highly flexible use in drag chain applications, 2 or 4 pairs, PUR, UL approval



## ETHERLINE® Cat.5e FD

Cat.5e for highly flexible use in drag chain applications, PUR, EtherCAT



## ETHERLINE® TORSION Cat. 5

Cat.5 for torsion applications, 2 pairs, PUR, PROFINET, UL approval



## ETHERLINE® PN Cat.5 FD

Cat.5 for highly flexible use in drag chain applications, PROFINET, Type C, UL approval



## ETHERLINE® FESTOON PN Cat.5e

Cat.5e for highly flexible use in festoon applications, PROFINET, Type C, UL approval



## ETHERLINE® ROBOT PN

Cat.5e for highly flexible use in robot applications, PROFINET, Type R, UL approval



## EPIC® DATA RJ45

Cat.6A, IP 20, suitable for up to 10 Gbit/s, field mountable



## ETHERLINE® EC FD Cat.5e

Cat.5, suitable for drag chains, PUR, 2 pairs, assembled on one or both sides



## ETHERLINE® EC FD Cat.5

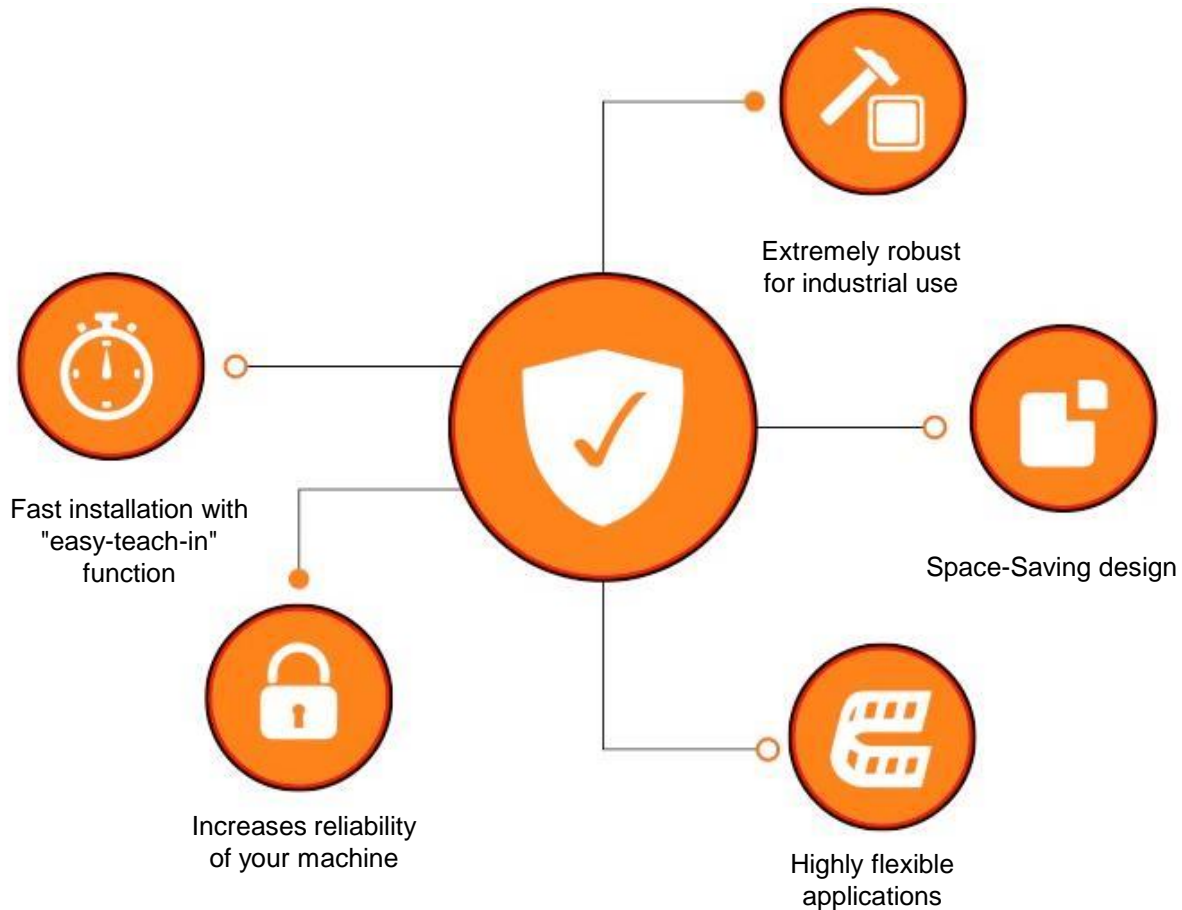
Cat.5, suitable for drag chains, PROFINET, Type C, D-code, PUR, UL approval;

2 pairs, assembled on one or both sides



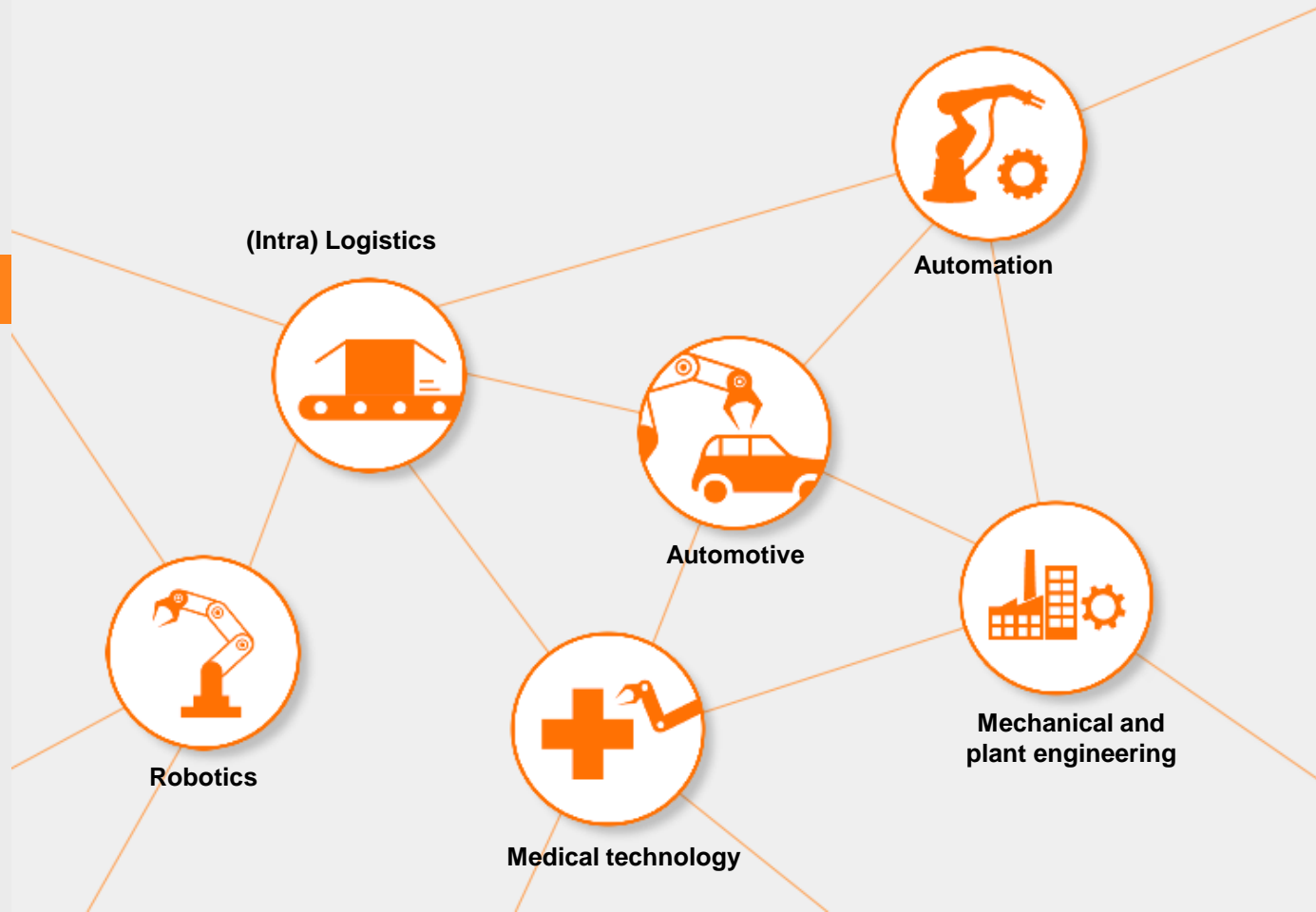
# Product characteristics

Extensively equipped



# Typical Applications

Industries



(Intra) Logistics

Automation

Automotive

Mechanical and  
plant engineering

Medical technology

Robotics

# Applications

## Examples

***The monitoring of function-critical applications reduces the probability of failure, enables plannable maintenance intervals and supports the maintenance of operations.***



(Intra-) logistics

- Full automation
- long connections
- high dynamics

Many individual, interlinked processes, where an interruption can result in a multitude of failures



Automotive industry

- Process chains
- fast cycle times
- high downtime costs

A complete factory automation requires a 100% availability of all machines and a deterministic planning of the service intervals.



Medical sector

- Extremely high downtime costs
- critical processes
- Life-sustaining measures

Medical applications require a 100% functionality, for example during surgery. The prediction of cable failures saves lives by guaranteeing functionality. This ensures efficient health care.

# Your Contact Person



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**THANK** **YOU**