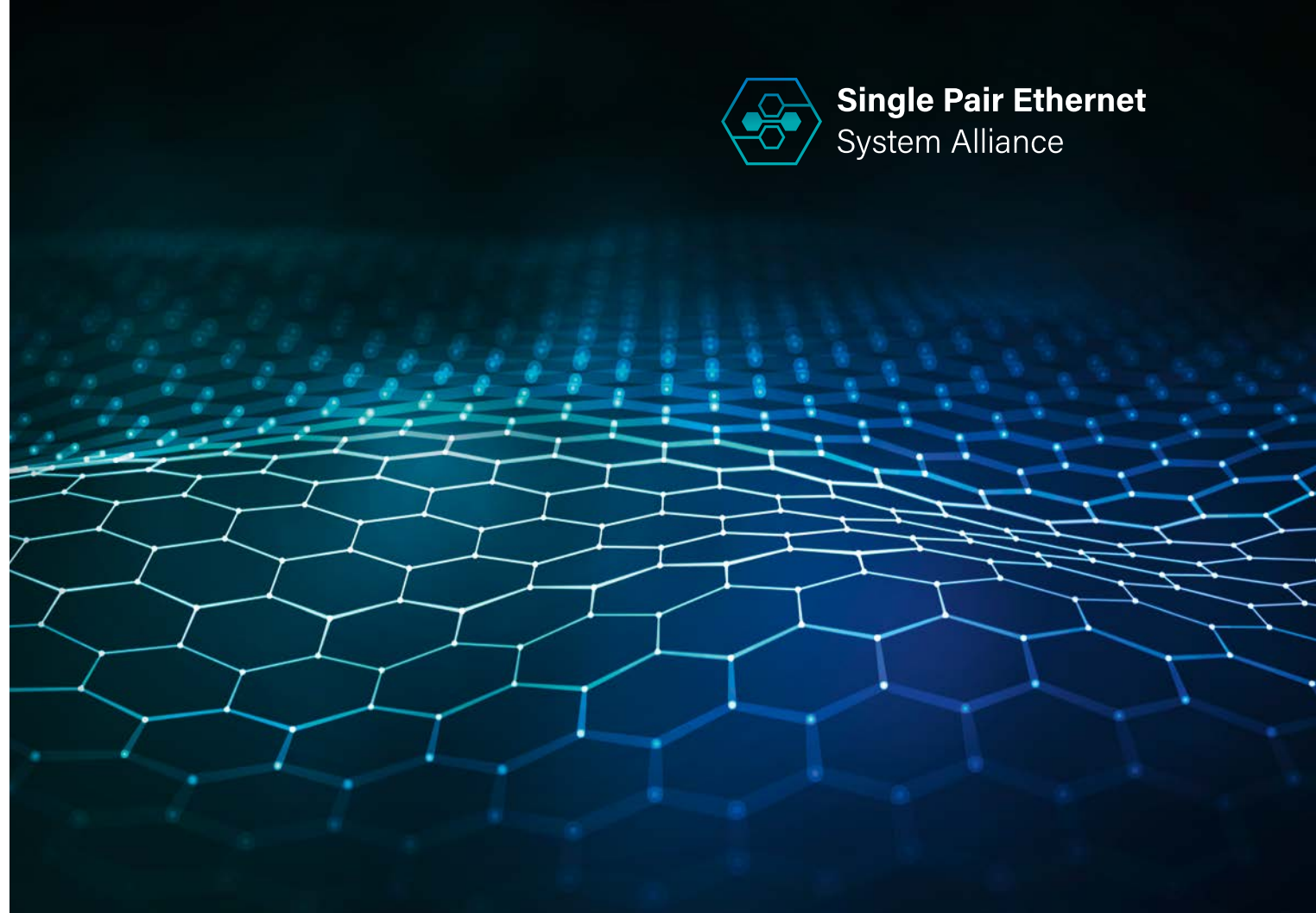


Members of the  
Single Pair Ethernet System Alliance



**Single Pair Ethernet**  
System Alliance



What  
about  
you?

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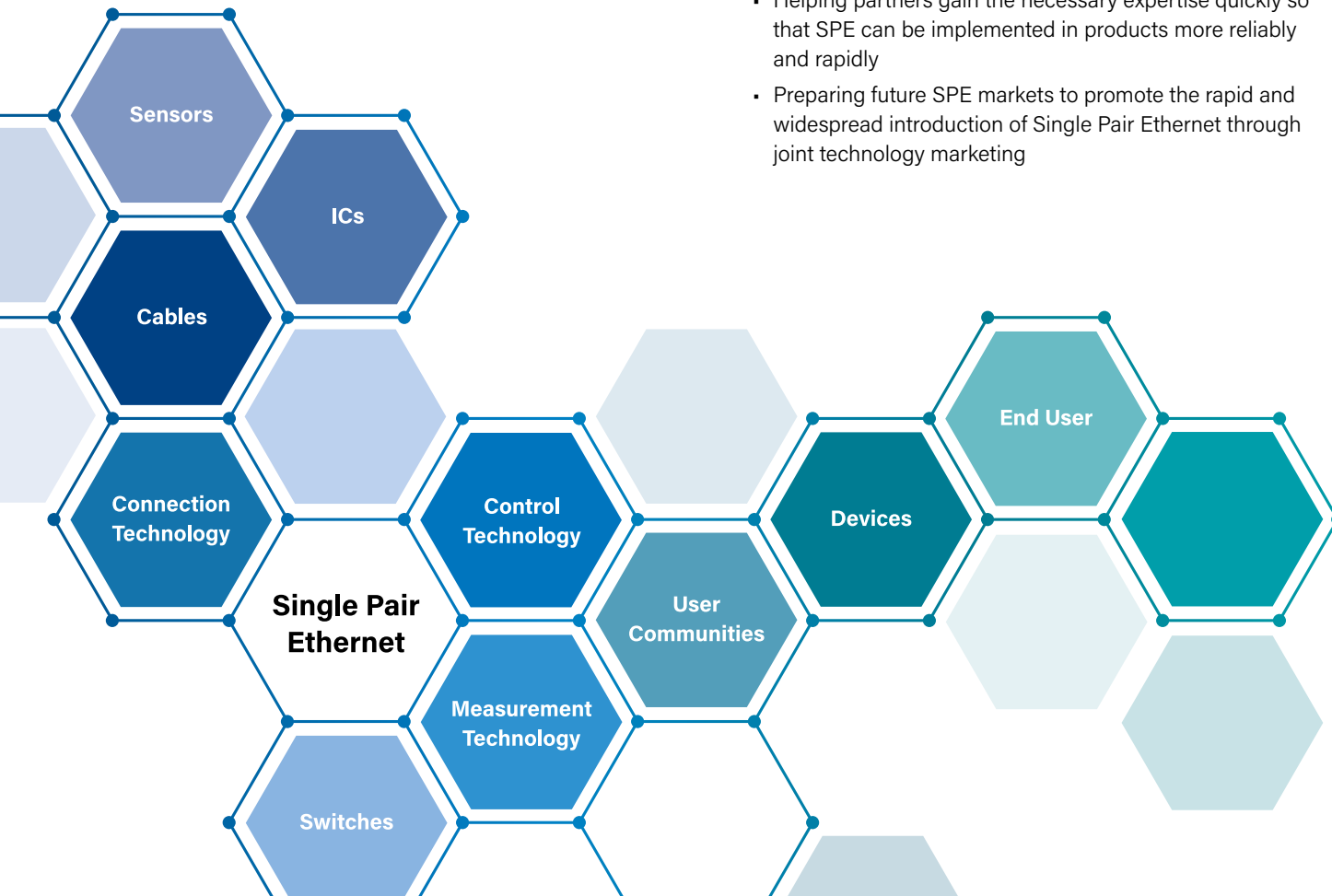
**Different companies,  
different applications,  
same objectives**

Single Pair Ethernet System Alliance

## The key technology for the IIoT

Single Pair Ethernet (SPE) will revolutionize industrial data transmission. The new network technology enables consistent IP communication from the field level to the enterprise level for the first time – i.e., from the sensor to the cloud. With application-specific data rates and transmission paths, SPE is suitable for numerous applications in industrial automation and process automation, and can also be used to implement IIoT solutions.

The technology has huge potential – not least because data and power can be transmitted in parallel over cabling that has been reduced to just one wire pair (PoDL – Power over Data Line).



## Our vision

The Single Pair Ethernet System Alliance is an open alliance of leading technology companies from different industries and fields of application. Sharing a common goal, the members of the alliance are pooling their expertise in order to promote the use of Single Pair Ethernet in IIoT applications and to provide maximum future security for users.

## Our mission

- Promoting the exchange of information between experts from various different industries and fields of technology
- Jointly working on technological challenges concerning the implementation of SPE in IIoT applications
- Helping partners gain the necessary expertise quickly so that SPE can be implemented in products more reliably and rapidly
- Preparing future SPE markets to promote the rapid and widespread introduction of Single Pair Ethernet through joint technology marketing

## What are the benefits for you?

- Experience can be shared between companies from various industries and areas of application
- Comprehensive knowledge of SPE technology can be acquired to facilitate rapid implementation in your own products and services
- Joint technology marketing to prepare the market for the IIoT infrastructure (white papers, presentations at trade fairs and conferences, PR, etc.)
- A coordinated approach in standardization committees and user organizations, and with major automation manufacturers and industry consortia
- Design-in and integration support at general standardization level for network components in SPE networks
- Excellent exposure for your company through press and PR relating to SPE and IIoT

## Advantages of Single Pair Ethernet

- **Consistent:** Single Pair Ethernet enables uniform Ethernet-based communication from the sensor to the cloud
- **Future-proof:** key technology for Industry 4.0 and IIoT
- **Integrative:** reduced cabling effort through the use of existing cabling infrastructures
- **Flexible:** ranges of up to 1000 m and transmission properties of up to 1 Gbps enable use across applications
- **Innovative:** lighter, less space required, and reduced installation effort