

Together, we can ...

Products, solutions and services

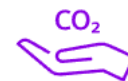
Overview



Solutions by industry

Explore our offerings designed to support your industrial decarbonization

[Learn more](#)



Solutions by use case

Discover our solutions for applications you need to master the energy transition

[Learn more](#)



Products

Get to know our product offerings designed to support your energy transition journey

[Learn more](#)



Services

Find the ideal service solution tailored to your needs

[Learn more](#)



Trainings

Looking to leverage your expertise and maximize the potential of your energy technology?

[Learn more](#)



Concepts in the Core Ontologies for Domain Ontologies and Domain Instance Data

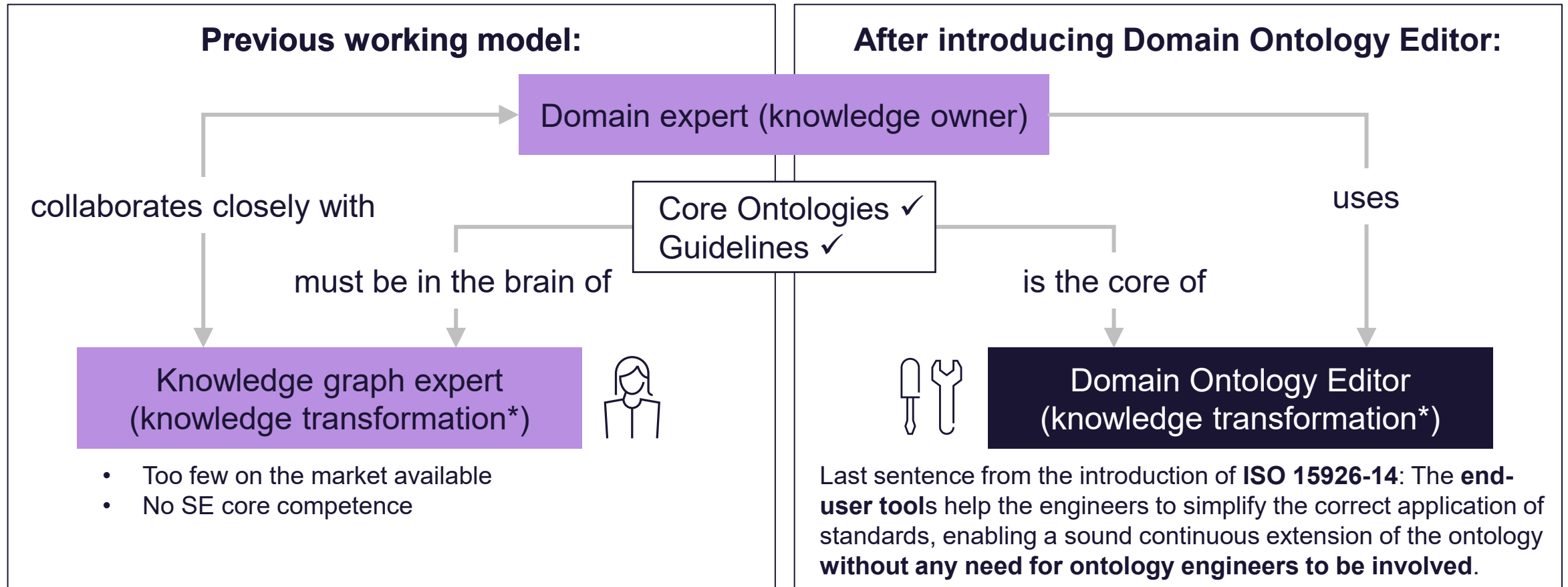
Purpose

All concepts from the the Core Ontologies which are currently used in Domain Ontologies in Siemens Energy Transmission are collected on this page. This includes how Domain Instance Data should look like based on the corresponding Domain Ontologies.

Content

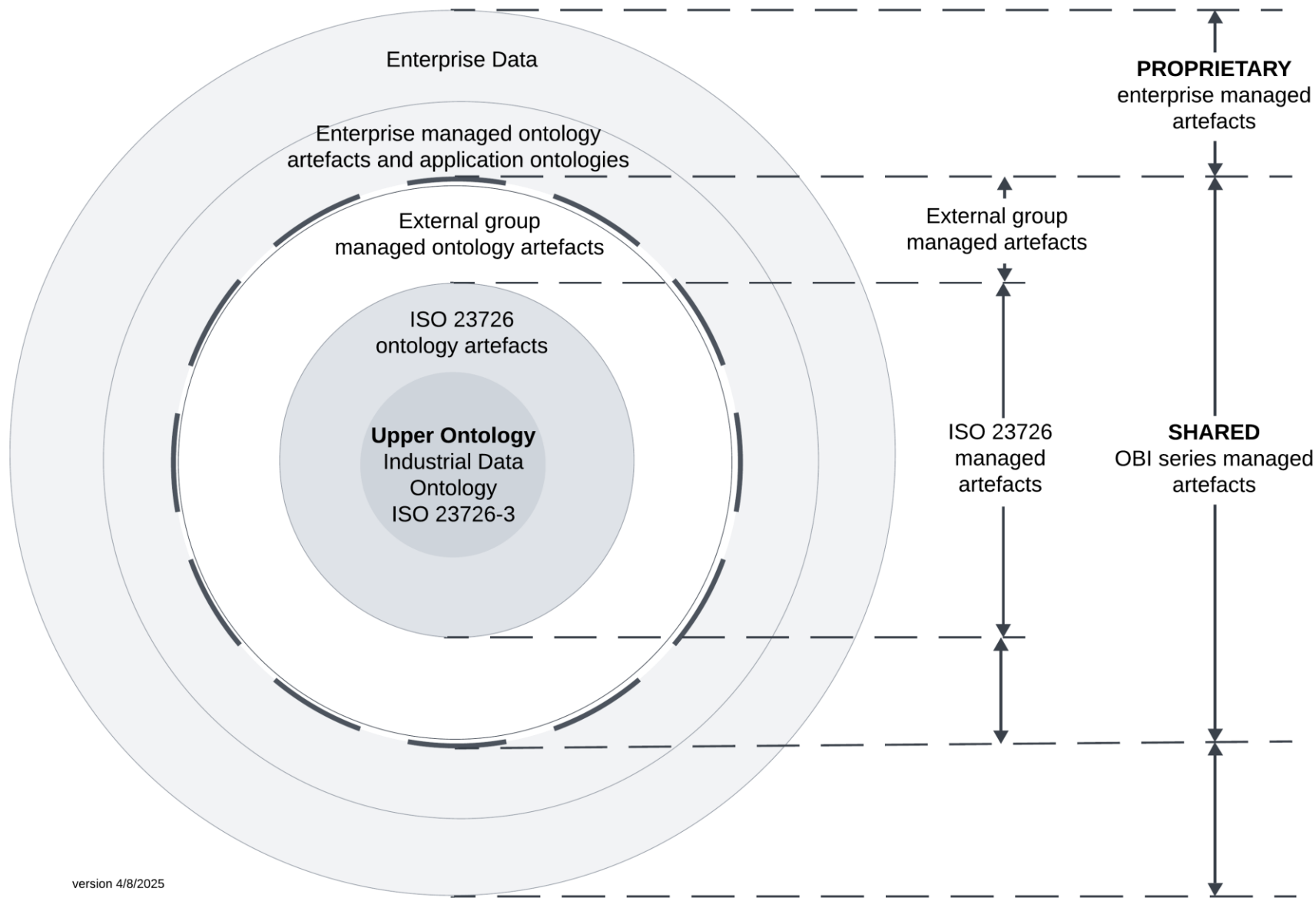
- [Introduction](#)
 - [Domain Ontology](#)
 - [Constructs in a Domain Ontology](#)
 - [OWL and SHACL](#)
- [Definition of the main Terms](#)
- [Overview of the building blocks defined to build Domain Ontologies](#)
- [Core Ontologies / Building Block Ontologies](#)
- [Naming conventions and Header information for Ontologies and Instance Data](#)
- [Mapping of OWL and SHACL representations](#)
- [Query guidelines](#)
- [Identifiers and Synonyms](#)
- [Class](#)
- [Datatype / Quantity Datum](#)
- [Property / Quality](#)
- [Enumeration](#)
- [Class Structure](#)
- [Classification](#)
- [Quality Assurance](#)

Introducing the Domain Ontology Editor Siemens Energy can use domain expert knowledge fast and effectively



* knowledge transformation: making implicit knowledge available for humans as well as for machines to enable a seamless communication

Artefacts in the OBI ecosystem



- Artefacts inside the black dashed line are shared resources.
- Artefacts and data outside the black dashed line are private and managed by the enterprise (or groups of enterprises).
- A shared ecosystem requires ontological alignment to ensure new entrants to the ecosystem are aligned to ISO 23726-3 and do not add concepts that are already defined in other ontology artefacts in the OBI ecosystem.

Together, we can turn IDO
from a vision into reality by
sharing common knowledge
through the OBI Community
so, **companies can focus**
on their **competitive differentiation**
instead of reinventing common knowledge
again and again