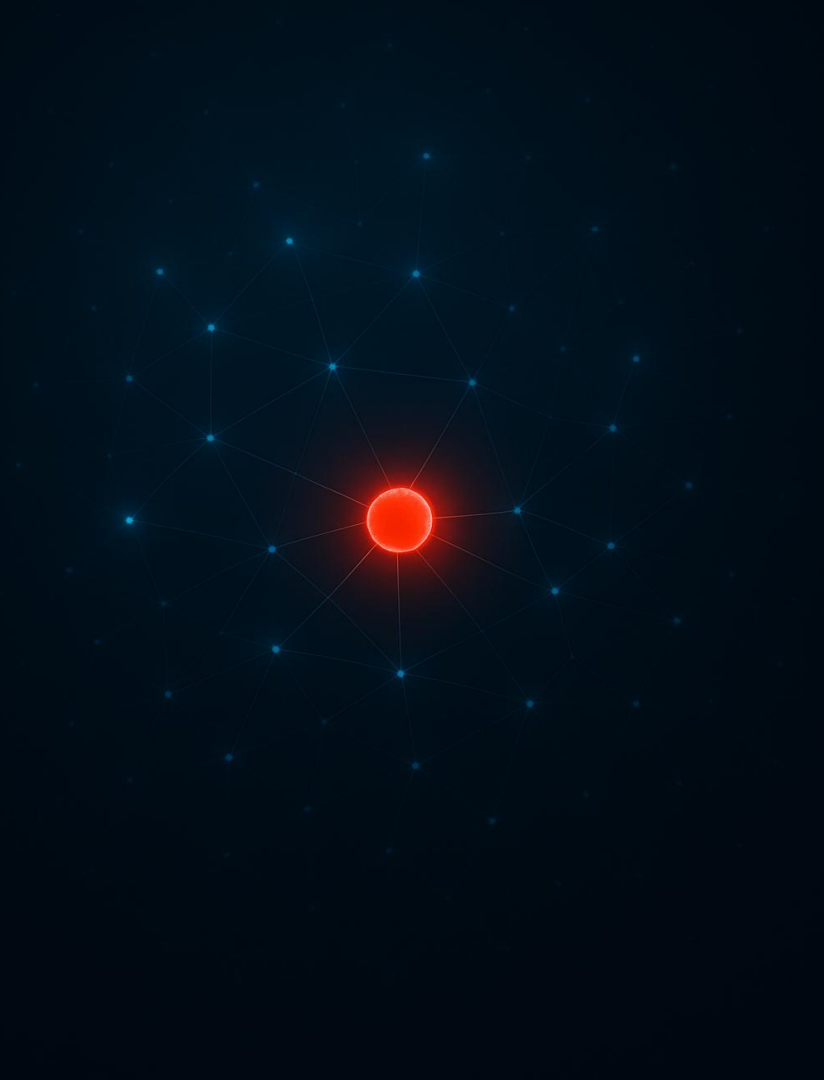




PCA Enterprise Reference Data Cloud

Fredrik Anthonisen
CTO, PCA

\$1,4 trillion lost
to unplanned downtime
(Siemens 2024)

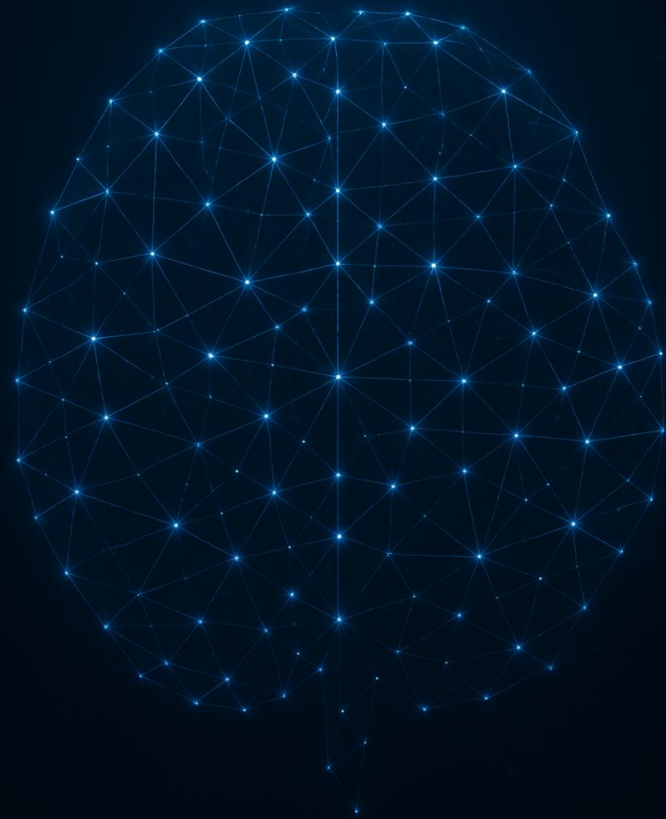


Co-dependency



PCA

Connecting information



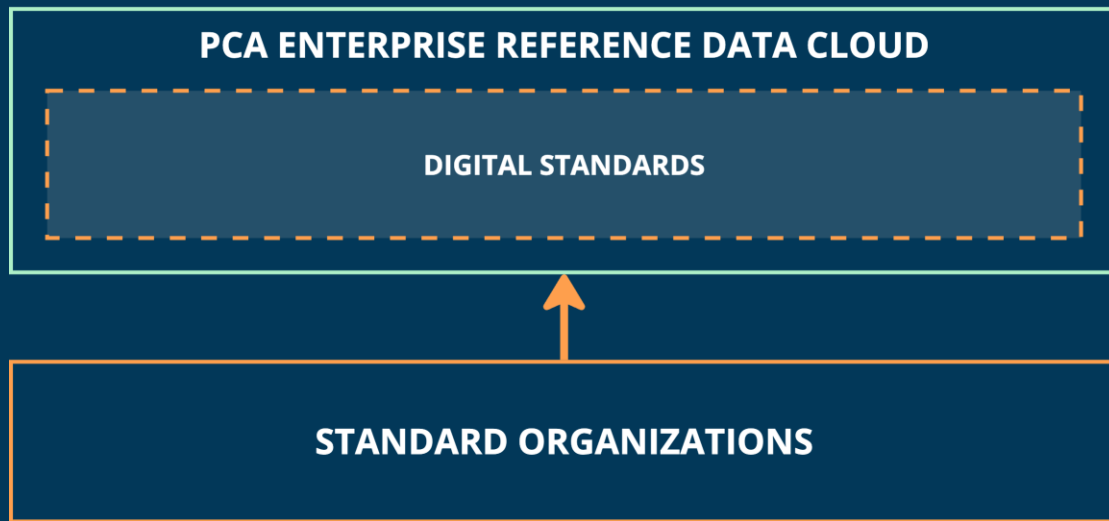
Inaccessible & Incomplete

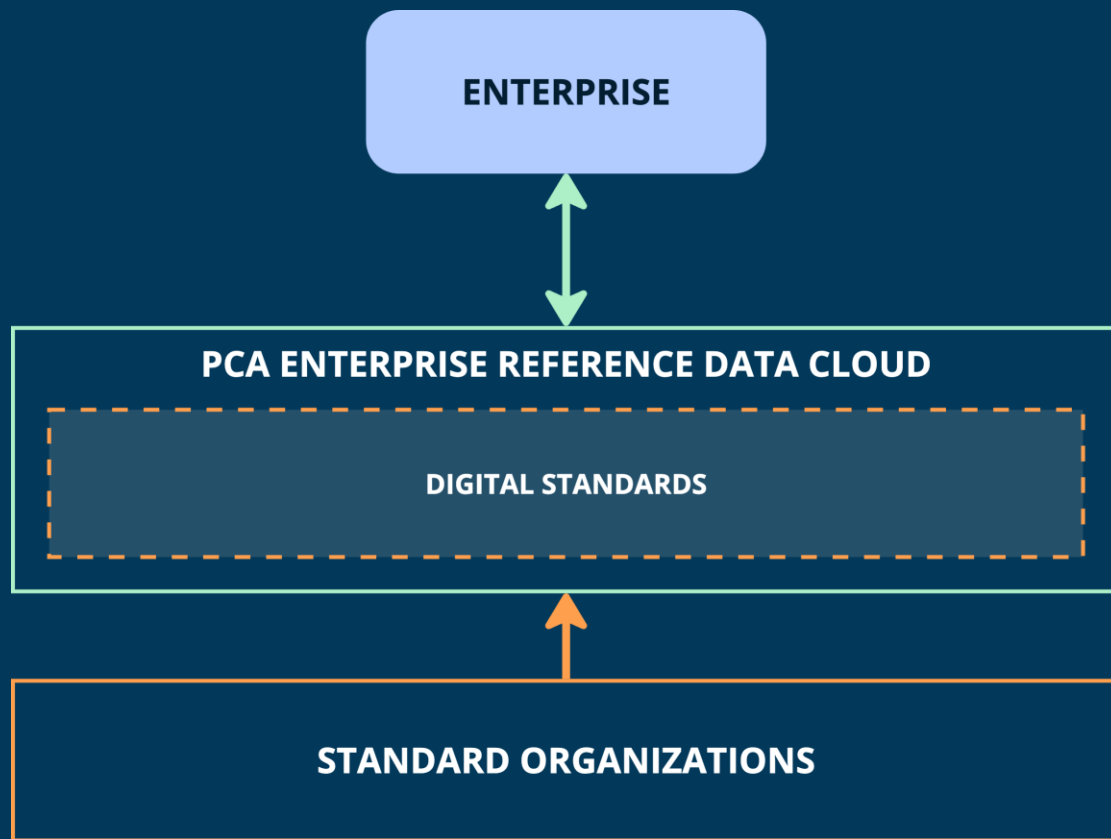


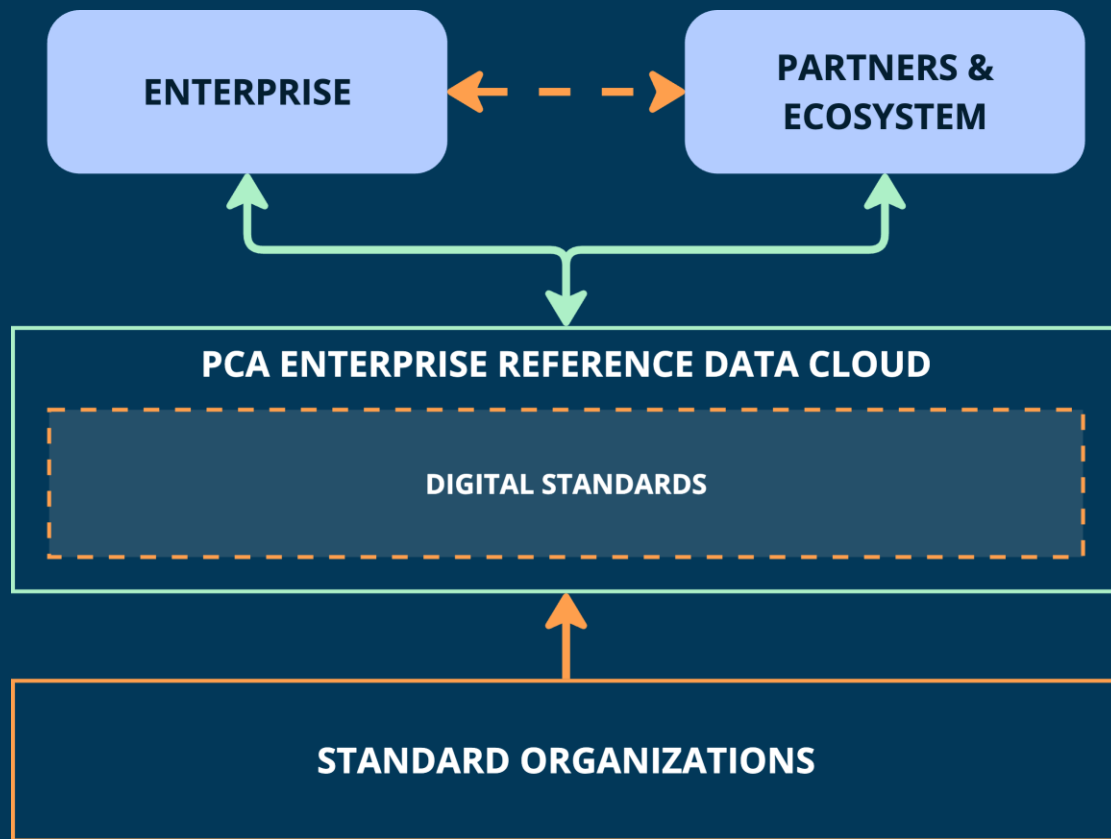
*Accessible &
extensible*

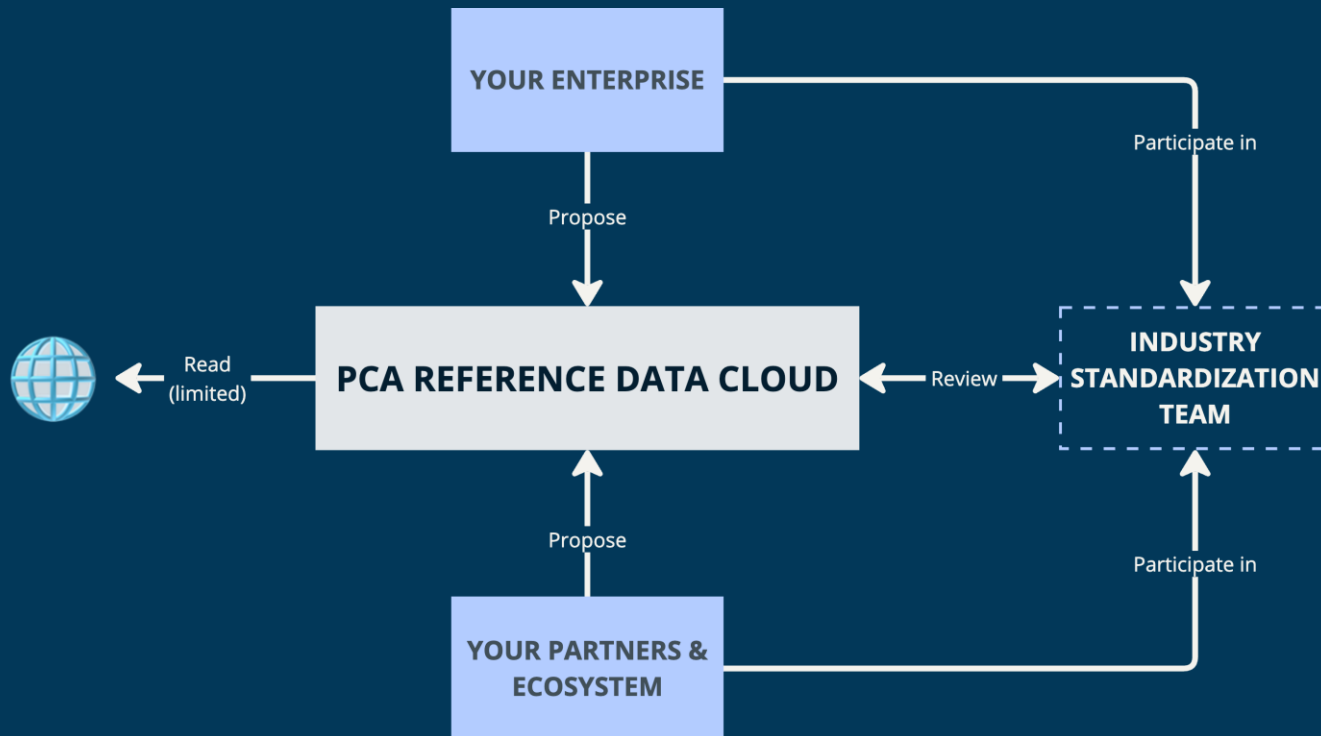


STANDARD ORGANIZATIONS

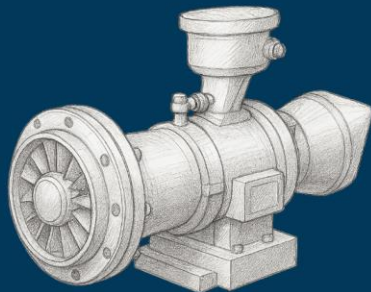








Owner/Operator



gas turbine

posccaesar.org/cfihos/v2.0/tags/CFIHOS-30000534



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[/ RDLs / CFIHOS RDL v.2.0 / gas turbine](#)

gas turbine

CFIHOS-00000034

[Information](#)
[History](#)
[Download](#)

Definition

A turbine that compresses air which is then mixed with fuel for combustion and expansion through a turbine section to generate relatively high power output for either mechanical drive or power generation.

Identifier:
<https://posccaesar.org/cfihos/v2.0/tags/CFIHOS-30000534>

Types:
[Class](#)
[NodeShape](#)
[CFIHOS-00000034](#)

Is defined by:
[CFIHOS RDL v.2.0](#)

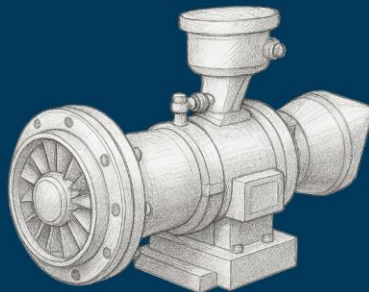
Abstract:
[no](#)

Equipment expected to be installed:
[yes](#)

Taxonomy (1)

Properties (46)

Owner/Operator

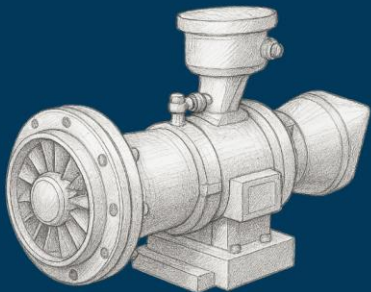


ID (URL)

PCA ENTERPRISE REFERENCE DATA CLOUD

gas turbine (<https://www.posccaesar.org/cfihos/v2.0/tags/CFIHOS-30000550>)

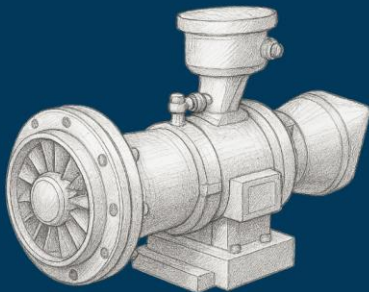
Owner/Operator



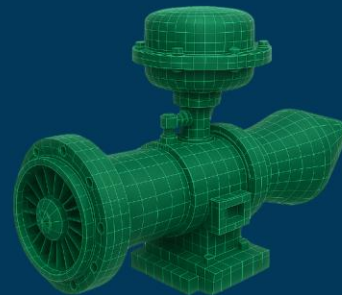
Requirements
with reference

Contractor

Owner/Operator



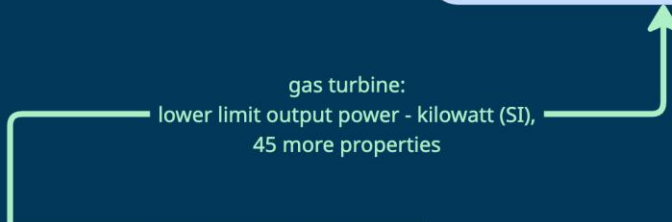
Contractor



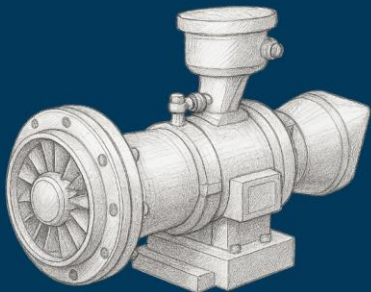
gas turbine:
lower limit output power - kilowatt (SI),
45 more properties

PCA ENTERPRISE REFERENCE DATA CLOUD

gas turbine

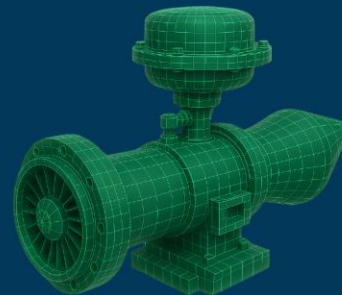


Owner/Operator

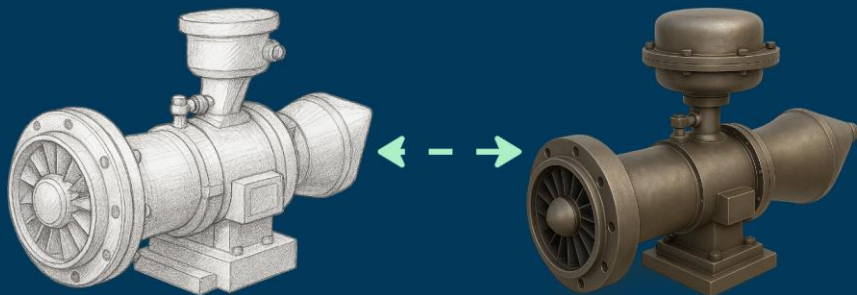


with data & reference

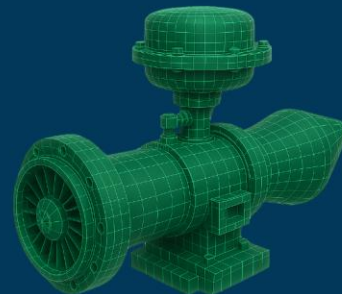
Contractor



Owner/Operator



Contractor

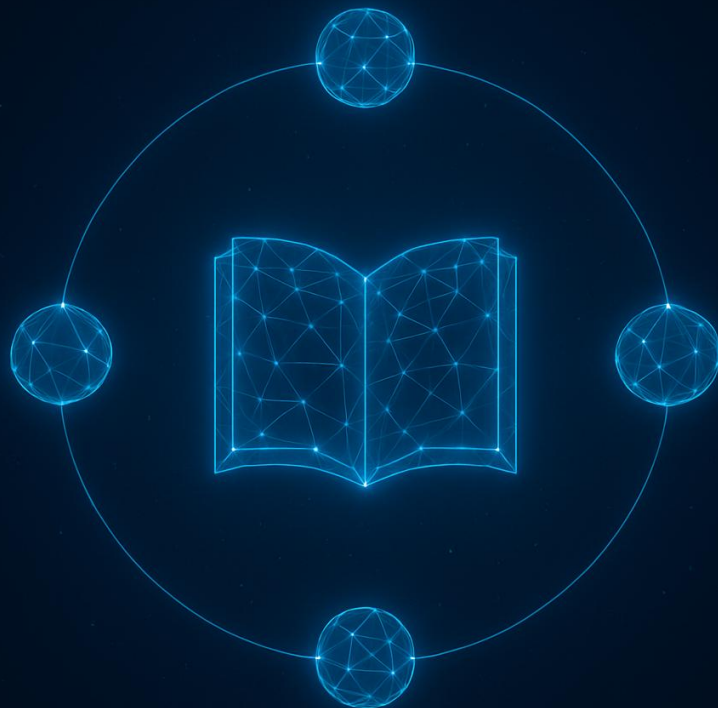


verification rule

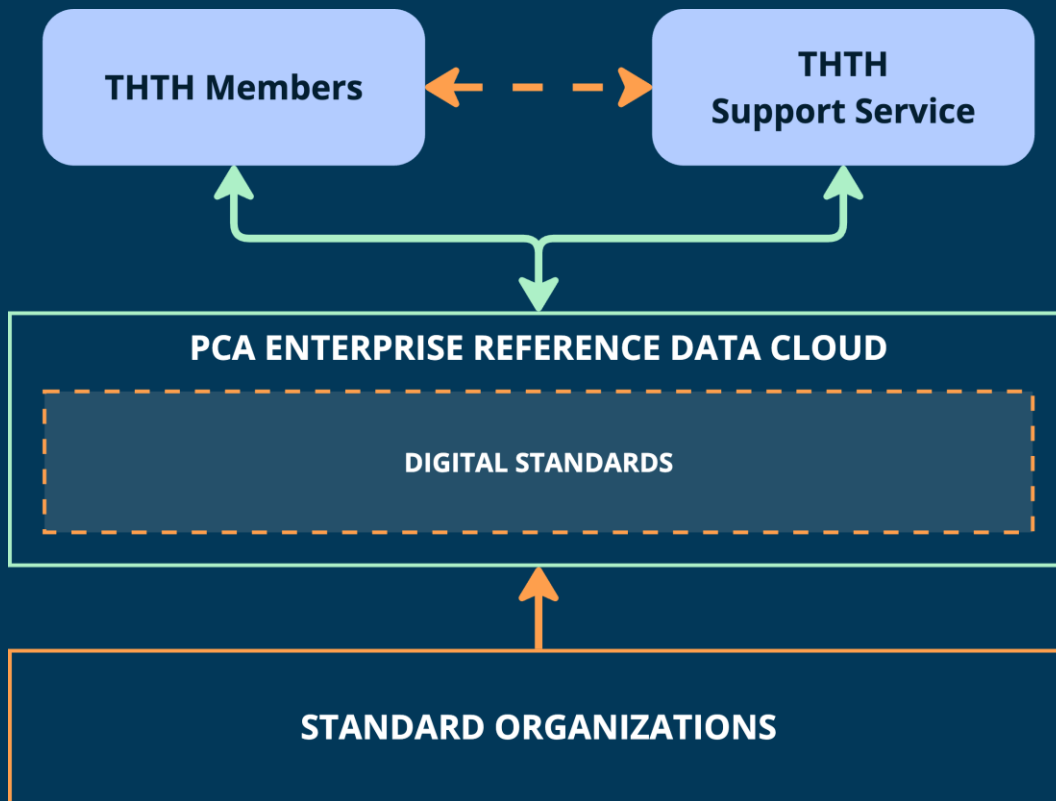
PCA ENTERPRISE REFERENCE DATA CLOUD

gas turbine

Trusted foundation
= ***informed decisions***



Delivery through THTH



Current libraries & services

Libraries & standards:

- *IDO* – Upper ontology for common modeling of industry data
- *CFIHOS RDL v.2.0* – Information handover requirements
- *ISO 15926-4* – Lifecycle data for process plants
- *PCA RDL* – Reference data and ontologies from 1990's until now
- *IMF Types* – Model different aspects and patterns of a plant
- *Digital Engineering Symbols* – Dynamic visualization of structured engineering data

Services:

- *Propose extensions/additions to existing libraries & extensions – instantly usable*
 - *CFIHOS+, IMF Types, Digital Symbol Editor, Taxonomies*
- *Upload new standard or collection to shared environment*
- *Cross-company QA & approval of extensions/additions*
 - *CFIHOS+, IMF Types, Digital Symbol Editor*

Upcoming libraries & services

Libraries & standards:

- *SDO* – Scheduling and planning standard
- Global ILAP Terms – Scheduling and planning reference data
- PCA PLM – Enabling easier creation of new domain standards
- QUDT – Quantities, Units, Dimensions and Types (origins from NASA)
- fPVN – DEXPI, CFIHOS & more aligned to IDO
- *Digital Engineering Symbols* – Scaled collection covering more use cases

Services:

- *Mapping service* - Express mappings between standards
- *Project configuration* – Define & share standard-based requirements for specific projects

Co-dependency



Collective advantage



Thank you!

Questions?

info@posccaesar.org

fva@posccaesar.org