



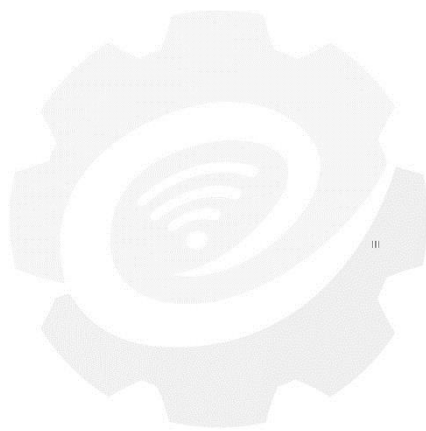
2019

工业互联网产业联盟



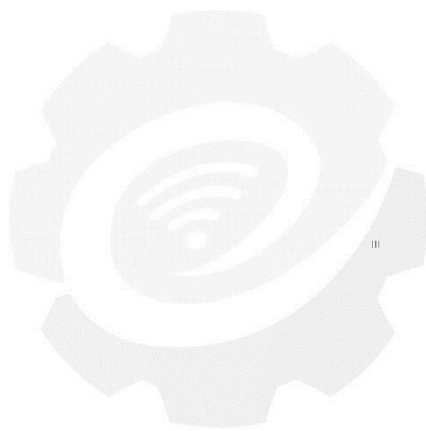
AII

2019 5



工业互联网产业联盟



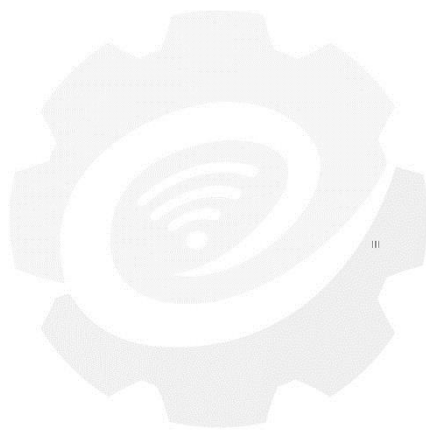


工业互联网产业联盟



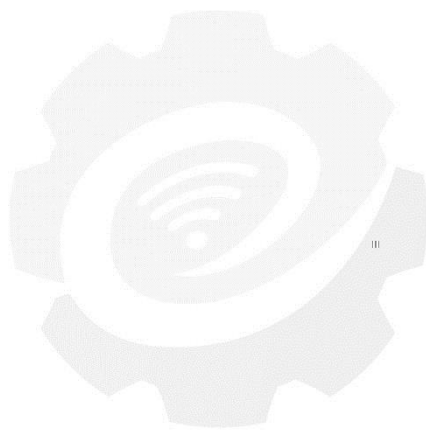
010-62305887

aia@caict.ac.cn



工业互联网产业联盟



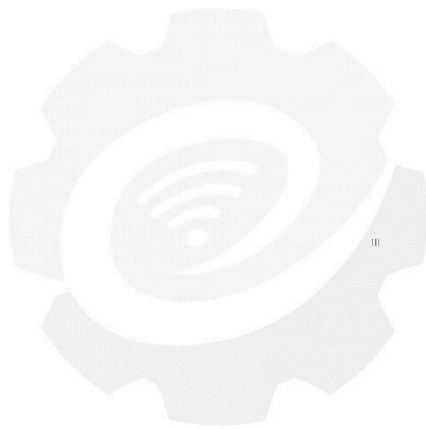


工业互联网产业联盟



倍

2019



倍

工业互联网产业联盟



e-works

倍

4.0

倍

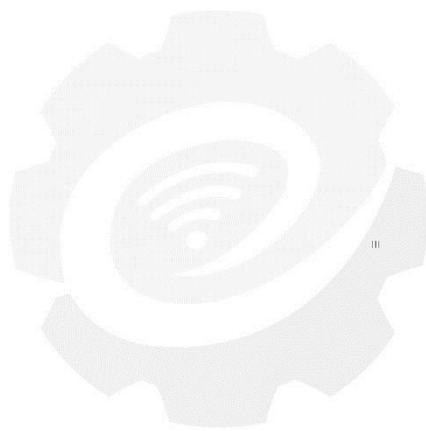
倍

泵



工业互联网产业联盟

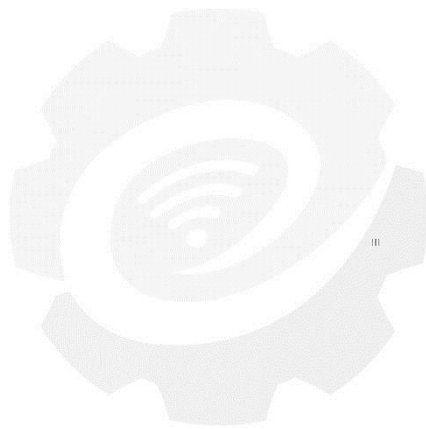




工业互联网产业联盟



ABB



工业互联网产业联盟



4.0

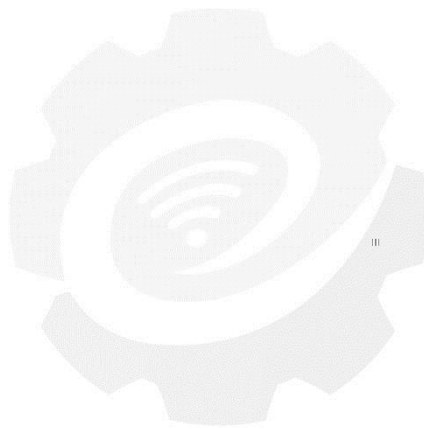
GE

PTC

+

2019

泵



工业互联网产业联盟



50

60

/

APP

2019



工业互联网产业联盟

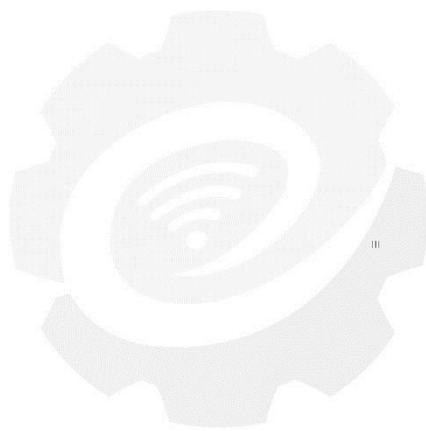


	.....	1
	.....	1
	.....	1
	.....	2
	.....	3
	.....	3
	.....	5
1.	.....	5
2.	.....	7
	.....	9
1.	.....	9
2.		
	.....	12
	.....	13
1.	.....	13
2.		
	.....	15
3.		
	.....	17
4.		

.....	18
5.	19
.....	20
.....	22
1.	22
2.	23
3. IT	
.....	24
	.26
1.	26
2.	
.....	27
3. [REDACTED]	28
	29
1.	29
2.	.30
3.	.31
.....	32
1.	32
2.	33

3.DevOps	34
4. APP	34
	35
	.36
1.	37
2. PaaS IT	.39
3.	40
4. PaaS	41
	43
1.	43
2.	

	.....	53
	.....	57
	.....	59
	.....	60
	.....	60
APP	.....	61
	.....	61
	.....	62
工业互联网产业联盟	.....	62
	.....	63



工业互联网产业联盟



MarketsandMarkets

2017

25.7

2018

32.7

2023

138.2

33.4%

GE

PTC

ABB

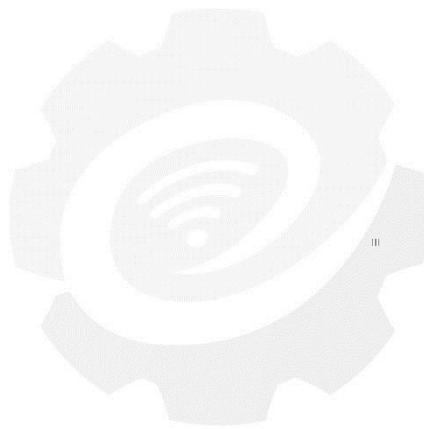
SAP

NEC

泵

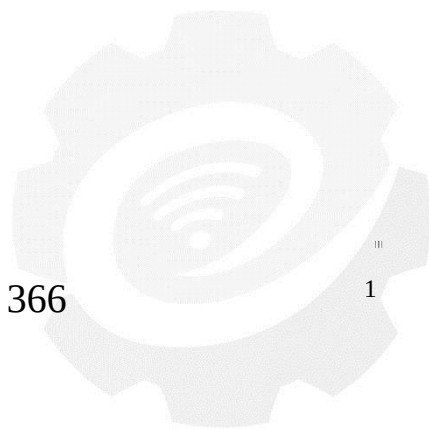
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TCL



工业互联网产业联盟





366

1

包

38%

28%

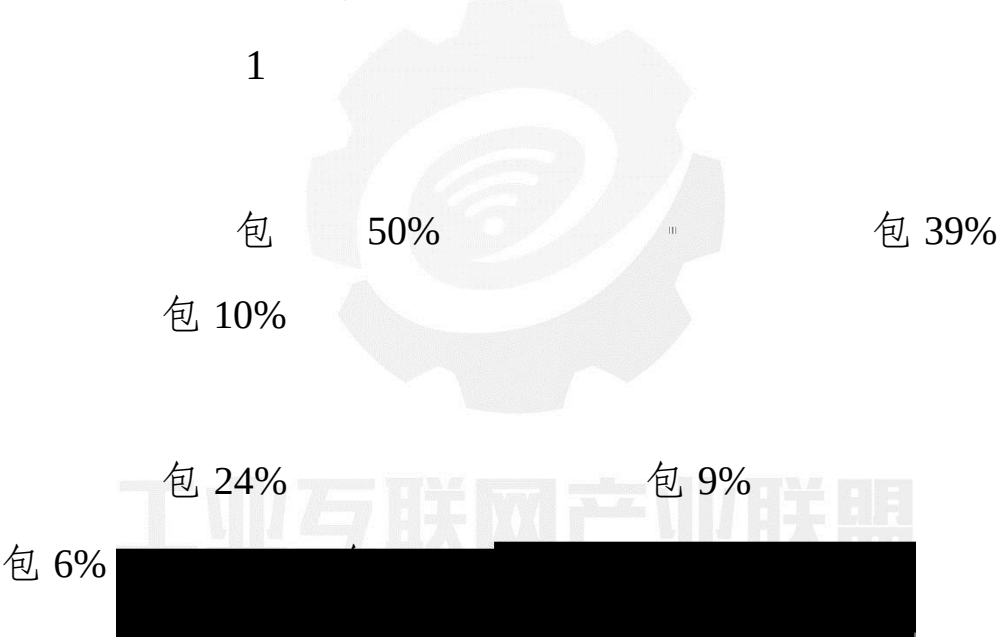
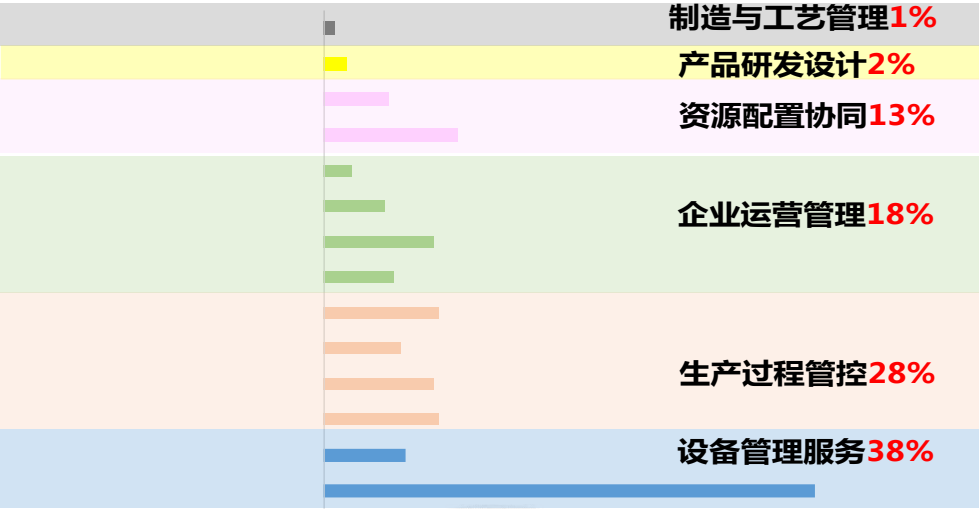
18%

工业互联网产业联盟

包

1





2



工业互联网产业联盟



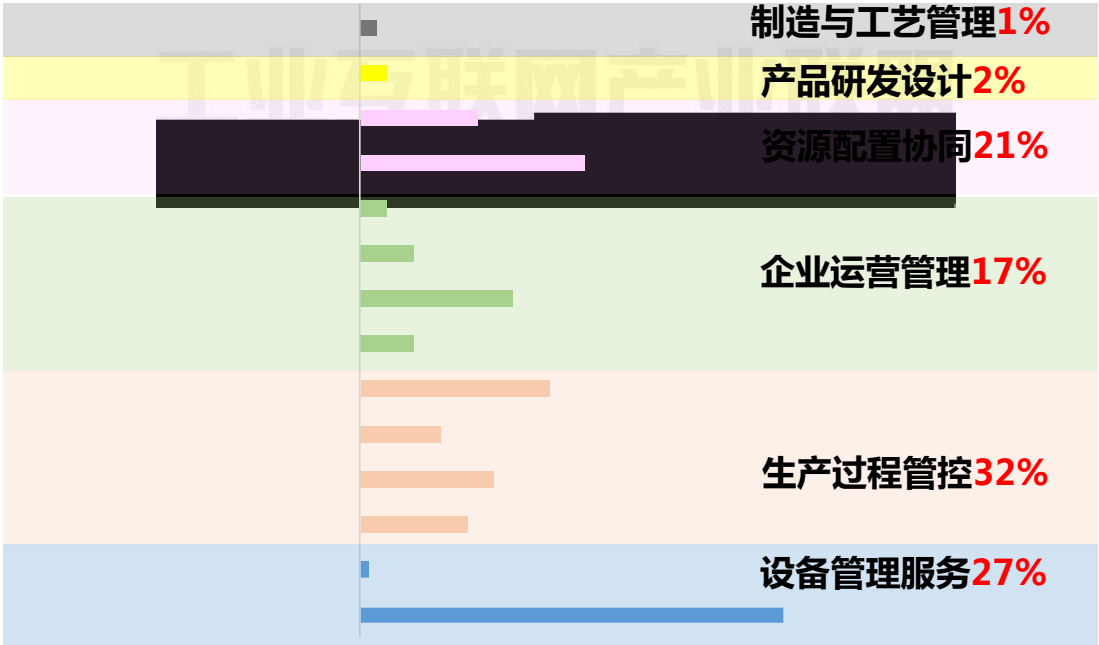
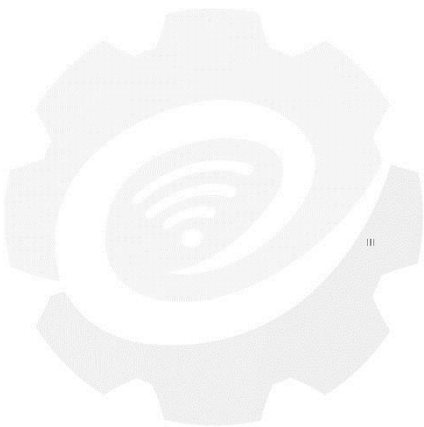
1.

✦

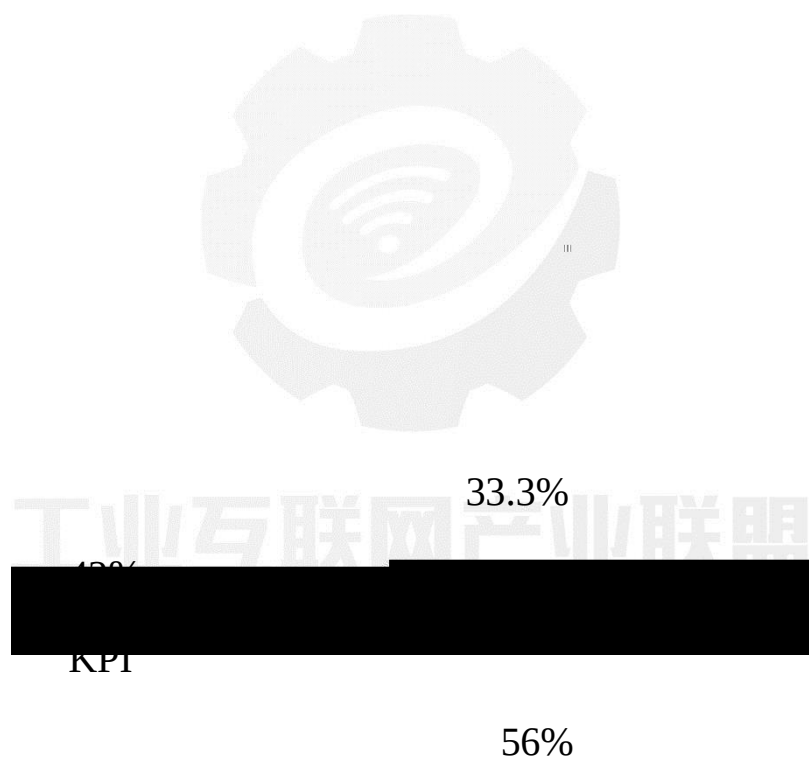
包 27%

包

32% 21%



2.



COSMOPlat

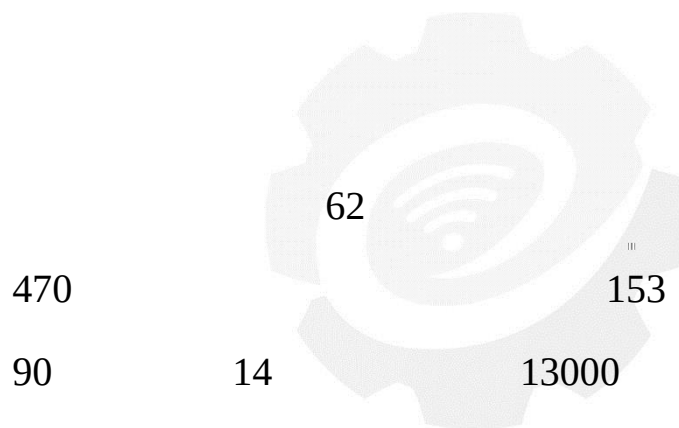
6

45

3

10%

SaaS



I-Martrix

工业互联网产业联盟



13

MES ERP

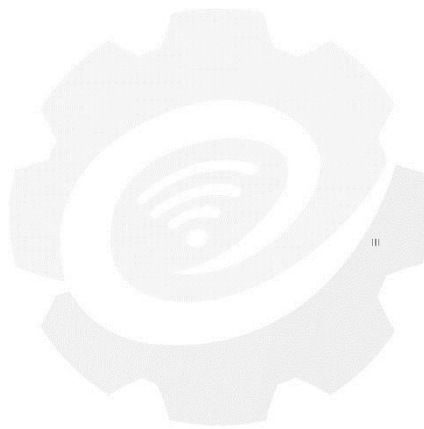
SaaS

10 /

4

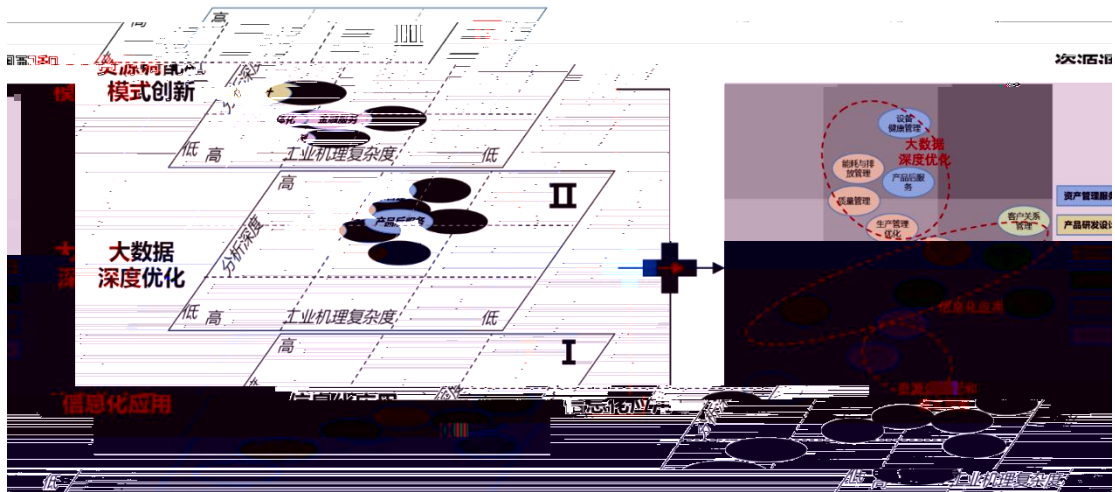
0

1.



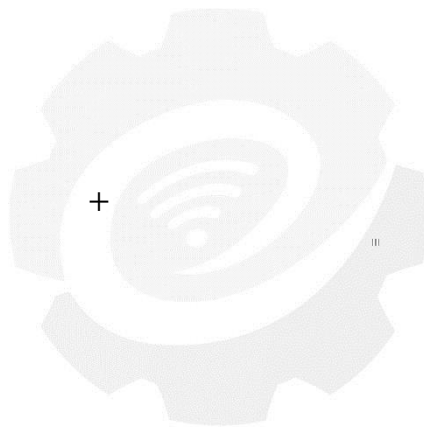
工业互联网产业联盟





4

1



PTC

工业互联网产业联盟



+

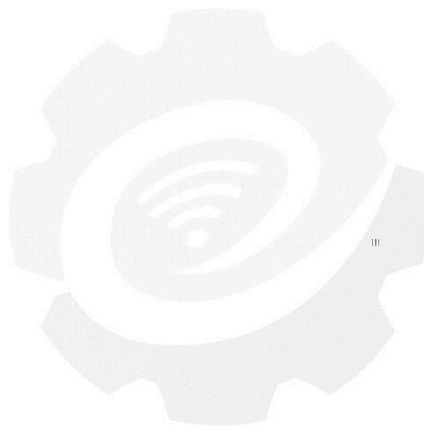
SAP Oracle Salesforce

SaaS

Salesforce

CRM

15

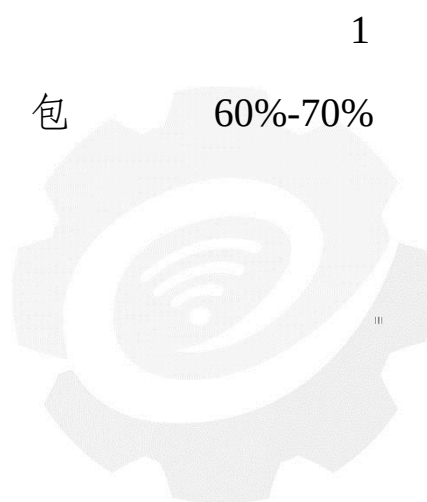


工业互联网产业联盟



2.





工业互联网产业联盟



3%

1.

泵

避

3DEXPERIENCE

40-60%

SYSWARE

13

30

7

14

CELOS

1:1

工业互联网产业联盟



7.65%

20%

2.



工业互联网产业联盟



15%

4600

13

0.22%

0.9

AIindustry

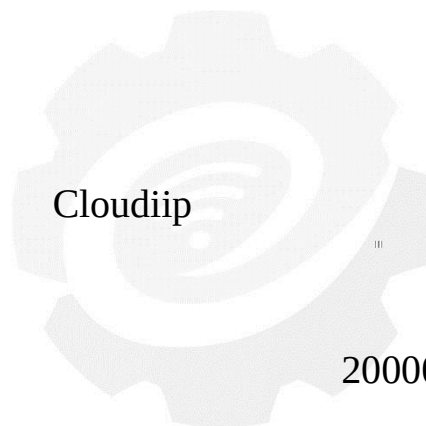
18

包

2.2 /

7480

598



Cloudiip

2400

20000

10%

ProMACE

工业互联网产业联盟

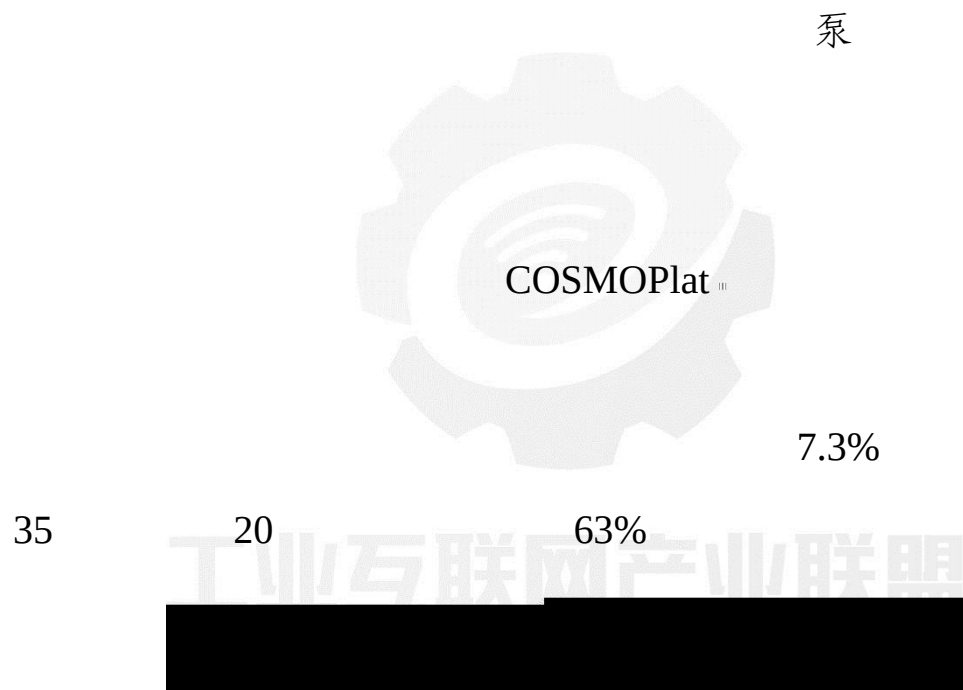
HSE

3.85

HSE



3.



200

M.IoT

94.1% 96.3%

4.



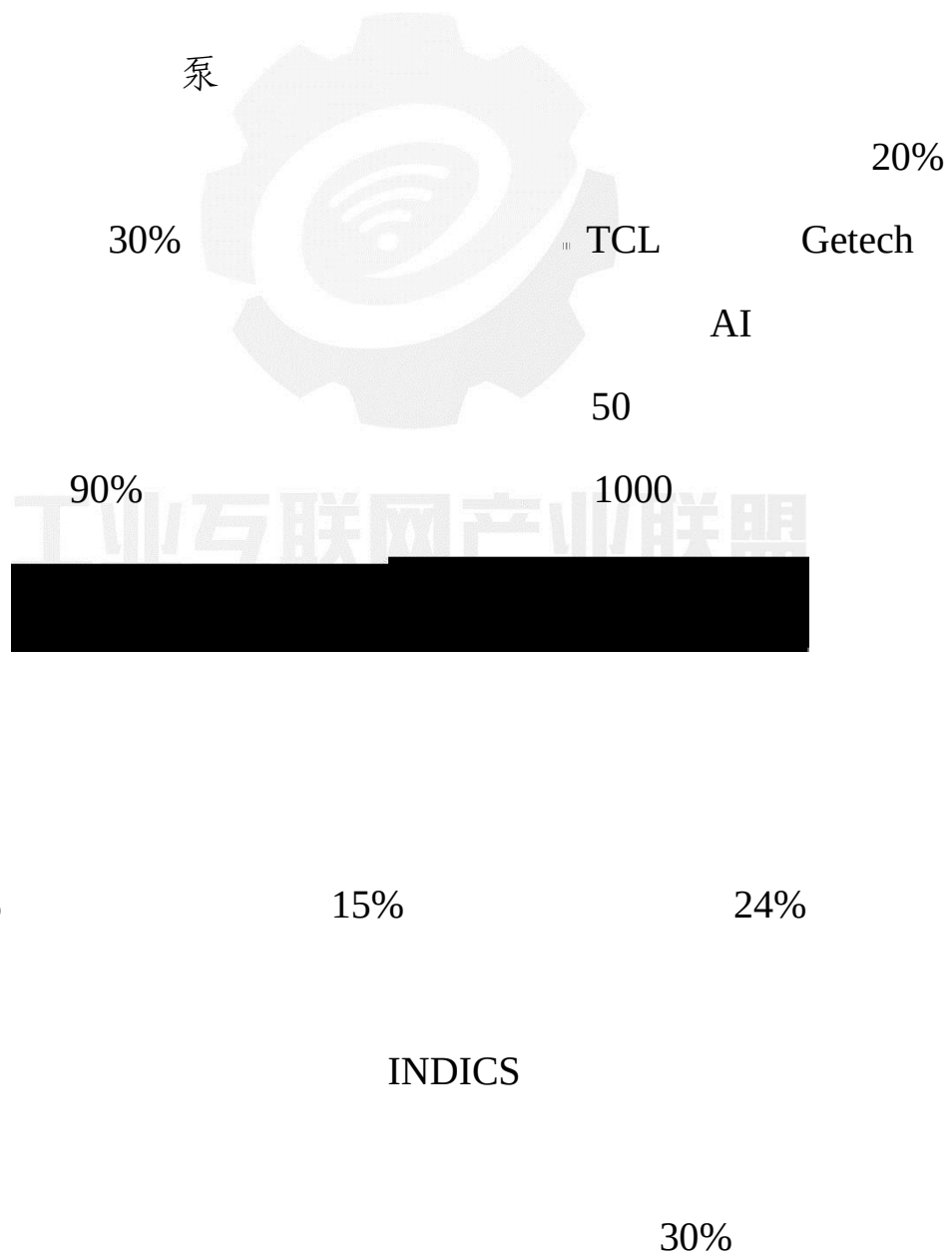
工业互联网产业联盟

APP



		40%	95%	
90%	100%		10	5
	100%	5%		

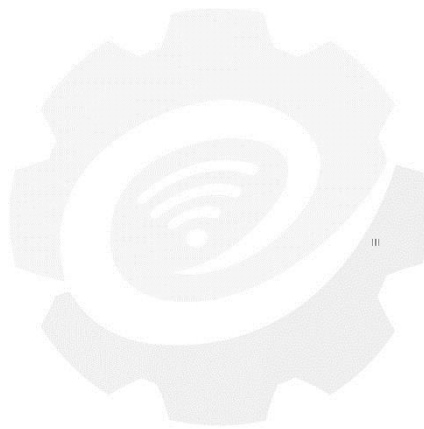
5.



200

AOI

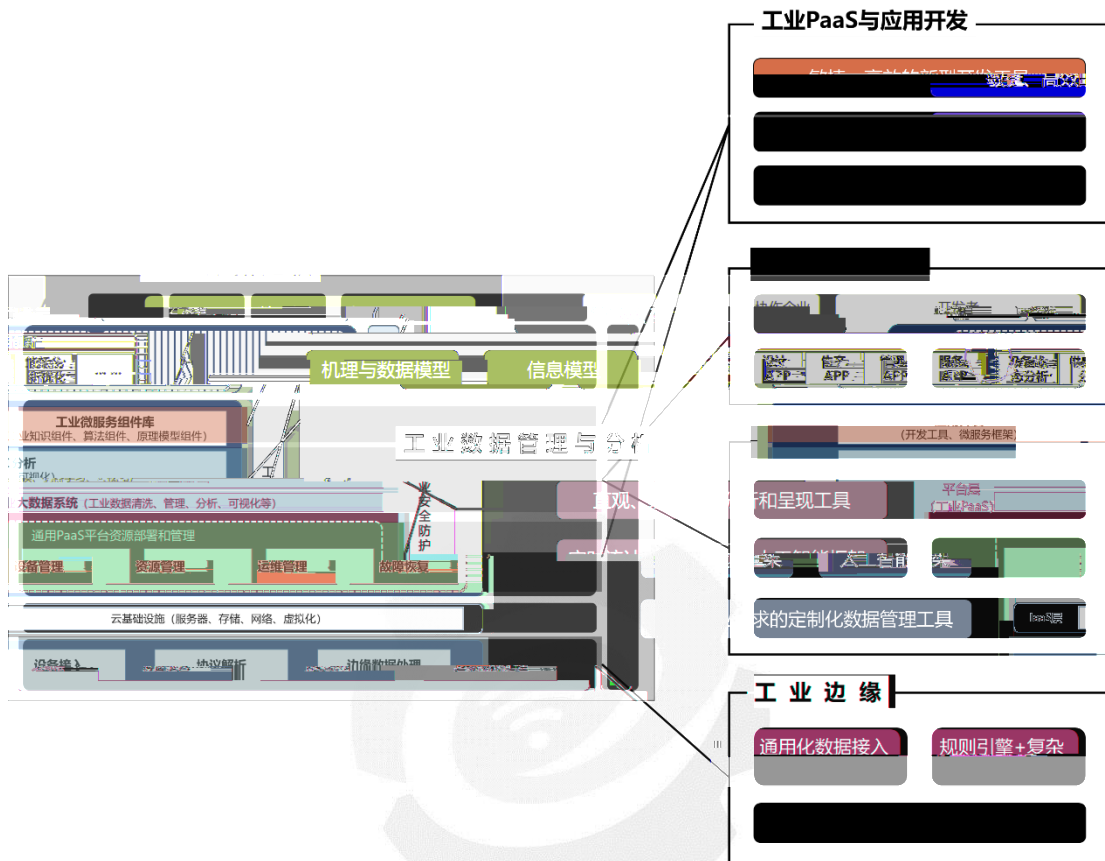
50%



IT

工业互联网产业联盟

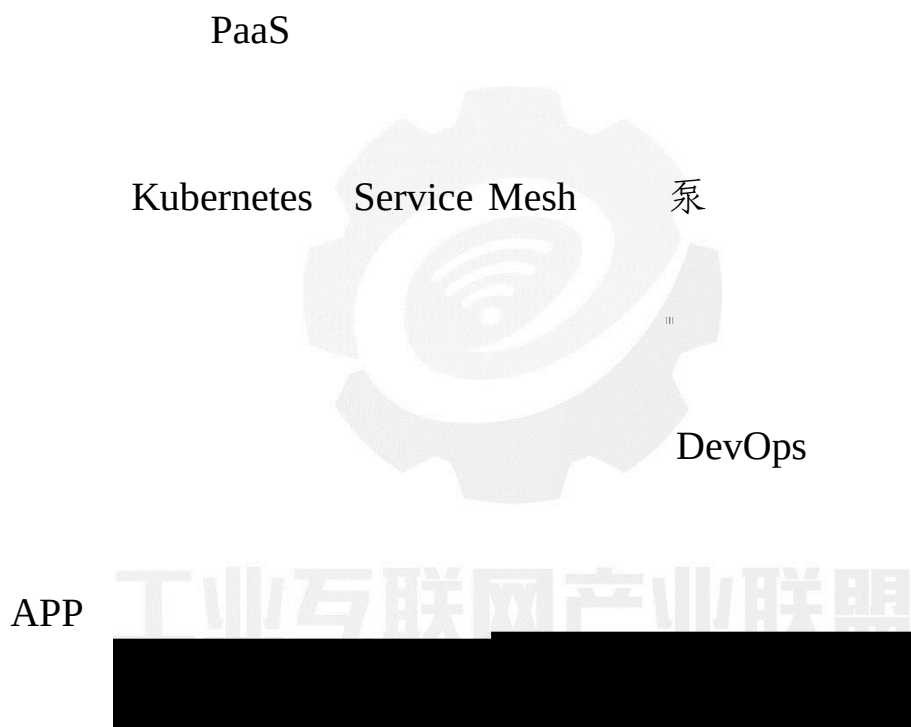




6

工业互联网产业联盟

IT



1.

WISE-PaaS 3.0

EdgeX Foundry

IoT

10

OSGi

SDK

ThingWorx

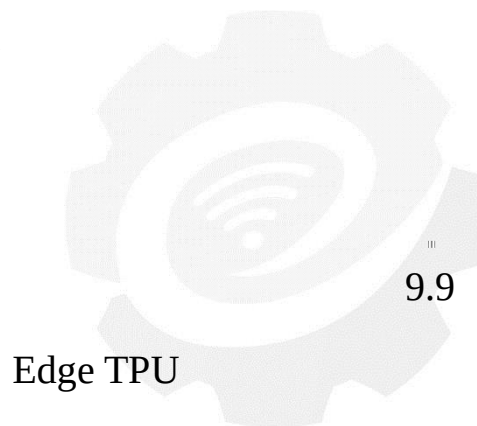
SDK

3D

AR

COSMOPlat

MQ-SDK



9.9

IoT WiFi

Edge TPU

2.

工业互联网产业联盟



-

PTC

ThingWorx

IoT

EcoStruxure

SPINEX

IBM Watson IoT

AWS IoT 1-Click

Lambda

MindSphere

RMS

避

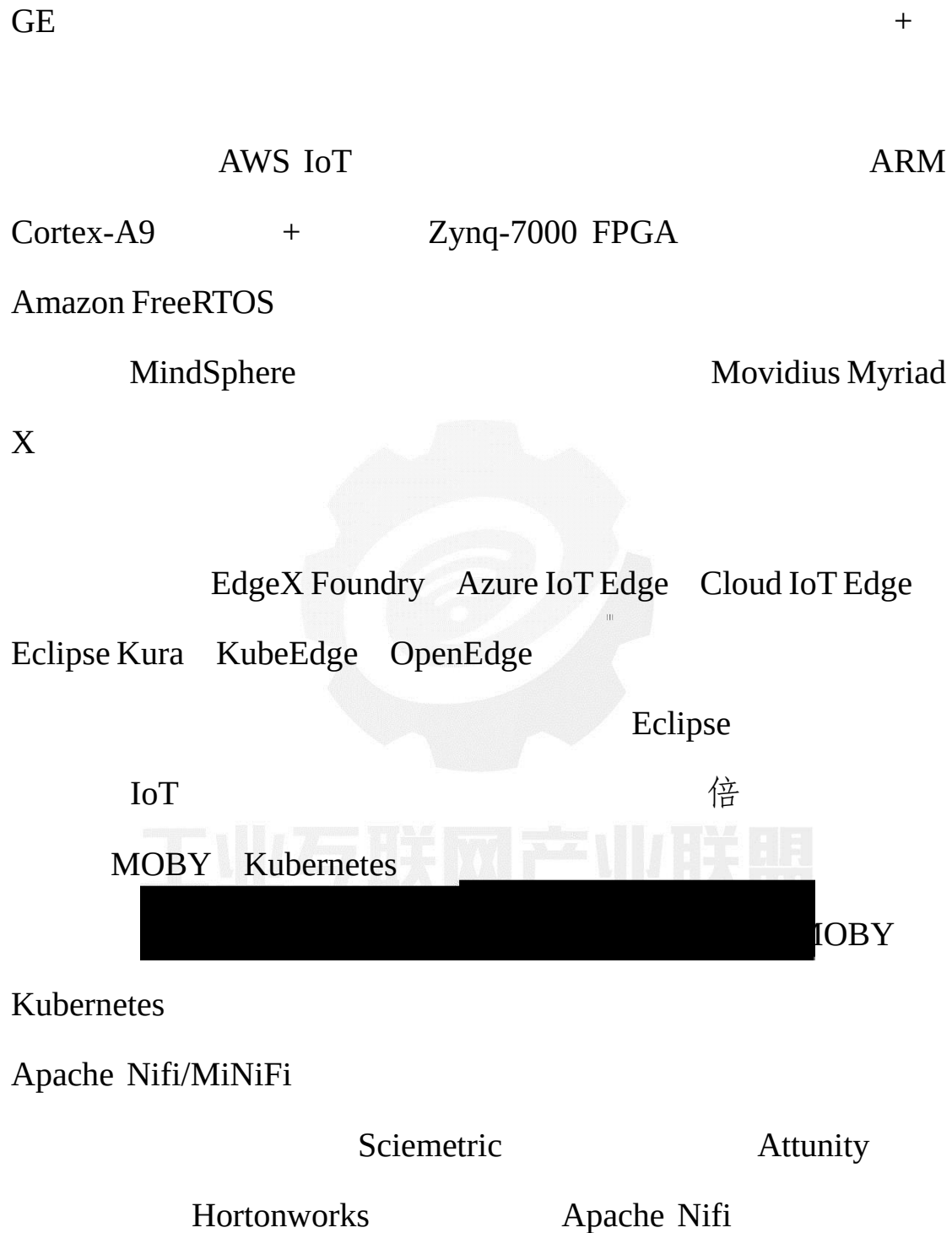
ADAMOS

CELOS

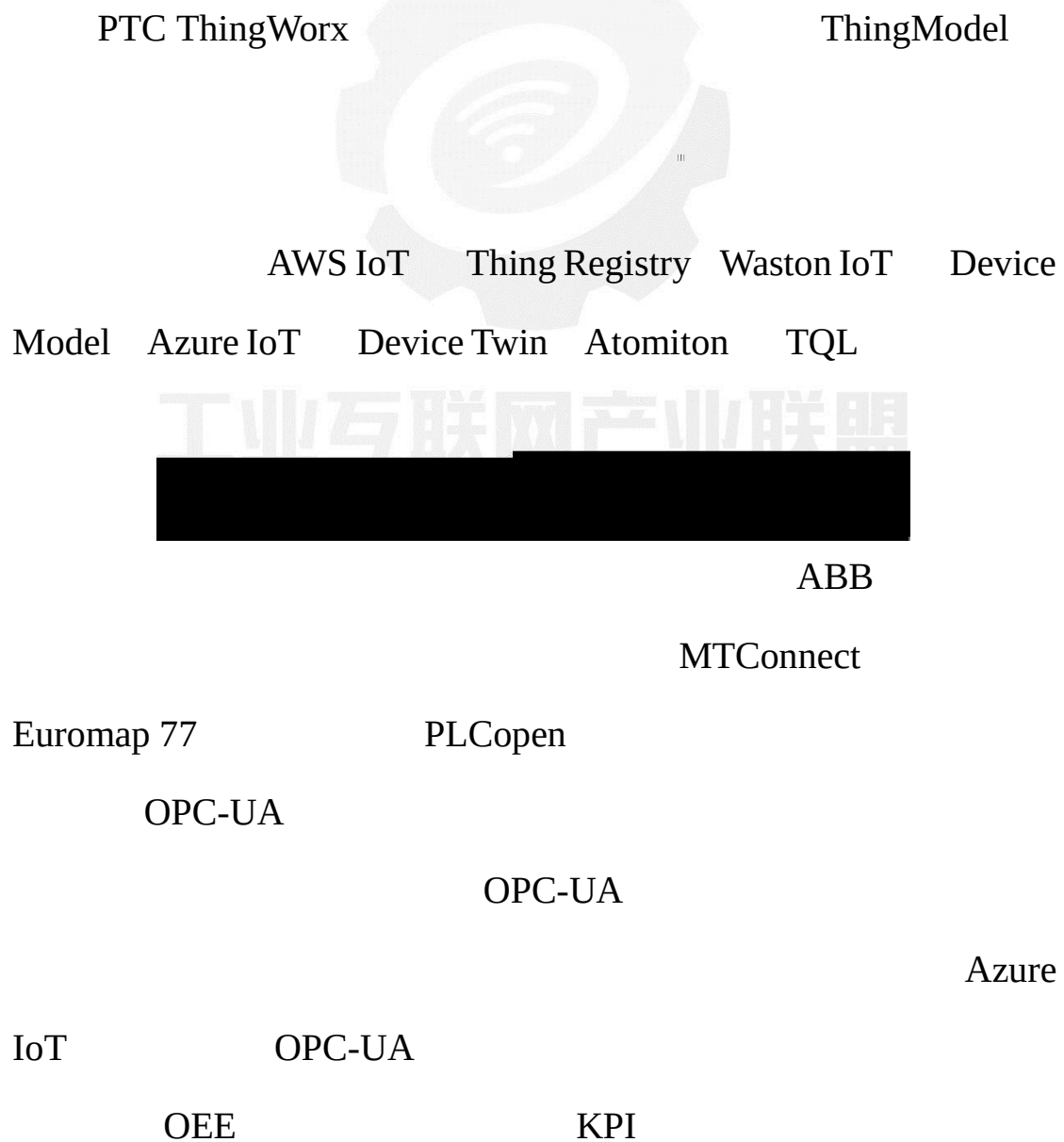


工业互联网产业联盟





1.



2.

Ambyint

45TBs 1



Uptake

800

55000

工业互联网产业联盟



Atos

Infosys

MindSphere

Atos

MindSphere

eBoM

14

IBM Waston IOT

IBM Maximo

Maximo

ThingWorx

Predix

IoT

3.

Azure IoT

AWS IoT

工业互联网产业联盟



Predix

+

ANSYS CAE

ThingWorx

Creo Product Insight

CAD

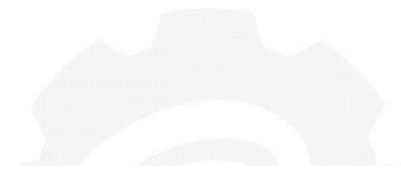
Bentley Systems

PlantSight

MindSphere

PlantSight

1.



Kafka Flume

Thingswise

Predix

Elasticsearch

Top Data Science

Predix

MindSphere

API

IoTDB

包

ThingWorx

Hortonworks

HDFS Yarn

Spark Flink

2.



Thingswise

IoT Software

AG

APAMA

Predix

SAS

Spark TensorFlow

Uptake

Maana

GE

3.

SCADA

Predix

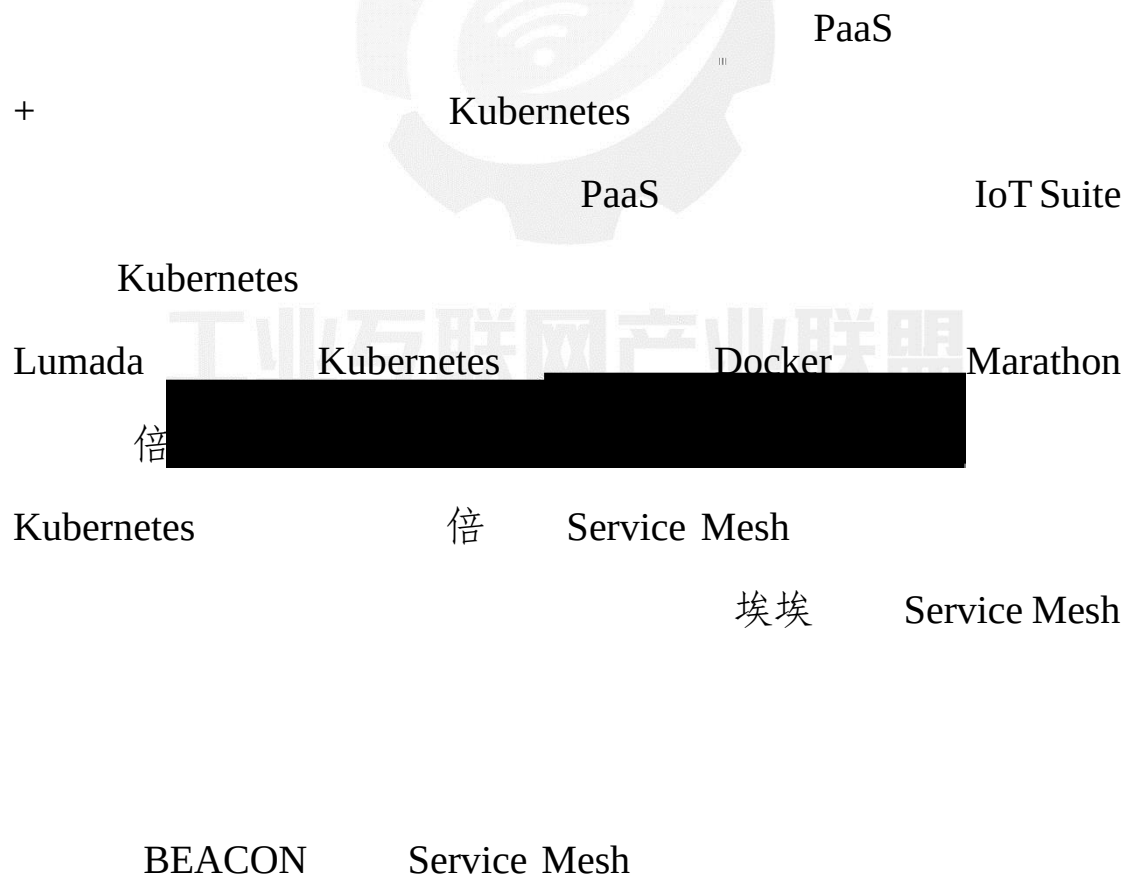
Tableau

避

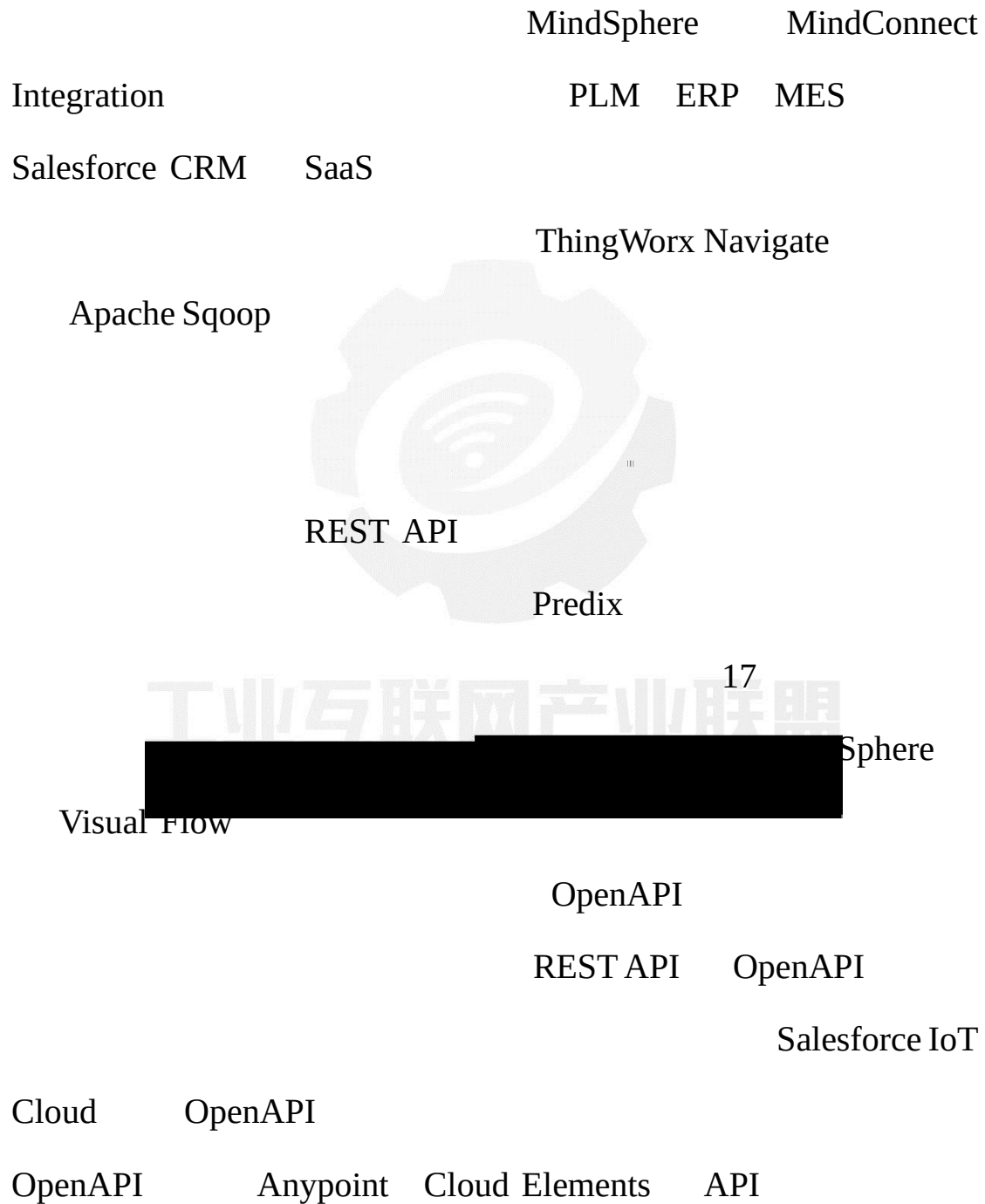
AR/VR

AR/VR

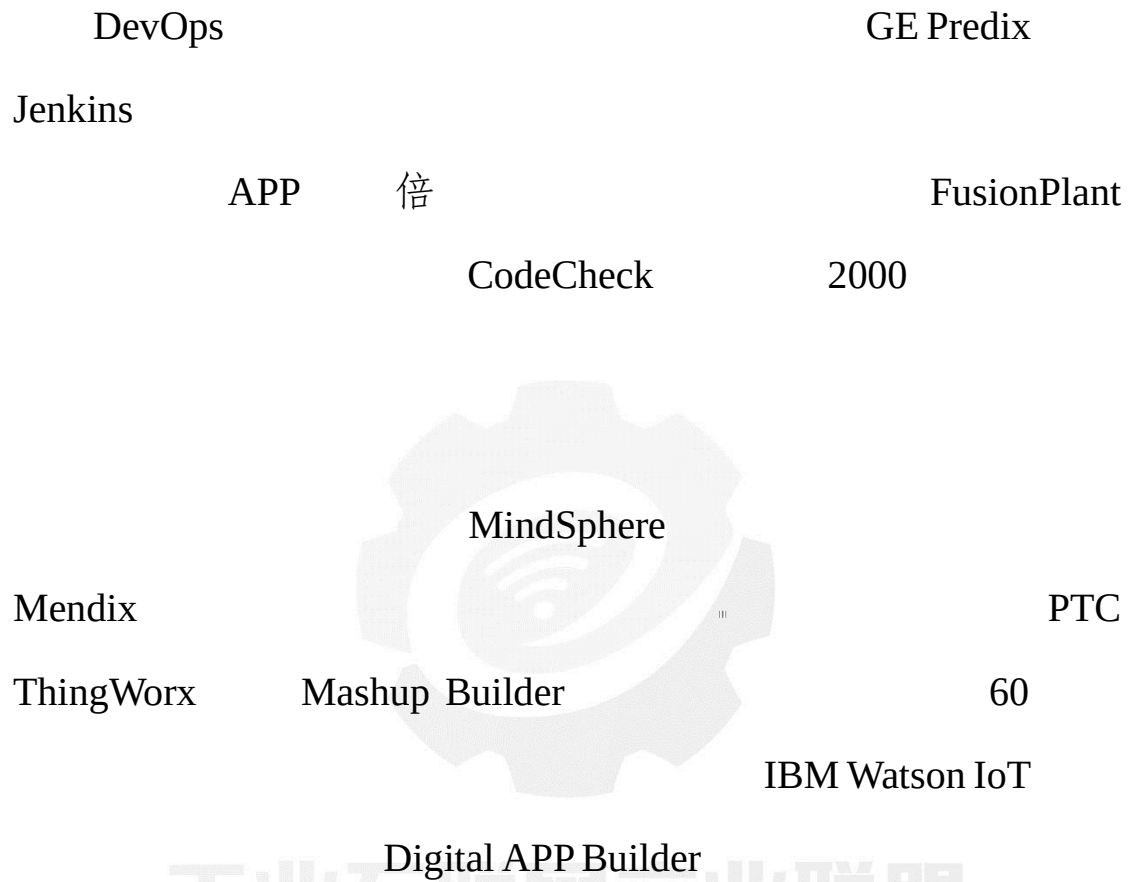
1.



2.



3.DevOps



4.

APP

APP

APP

PTC ThingWorx

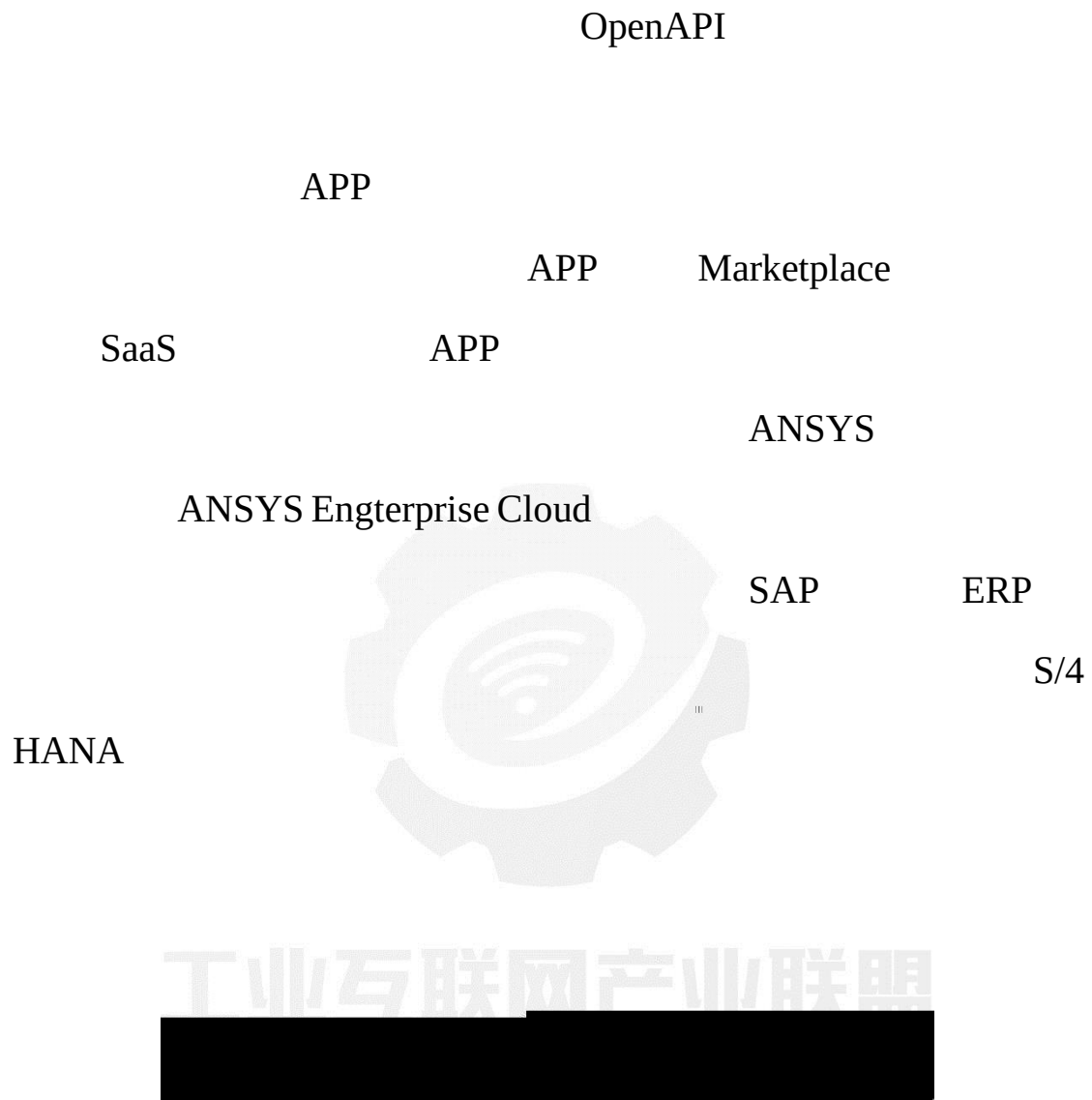
Navigate Controls Advisor Production Advisor Asset Advisor

Flow

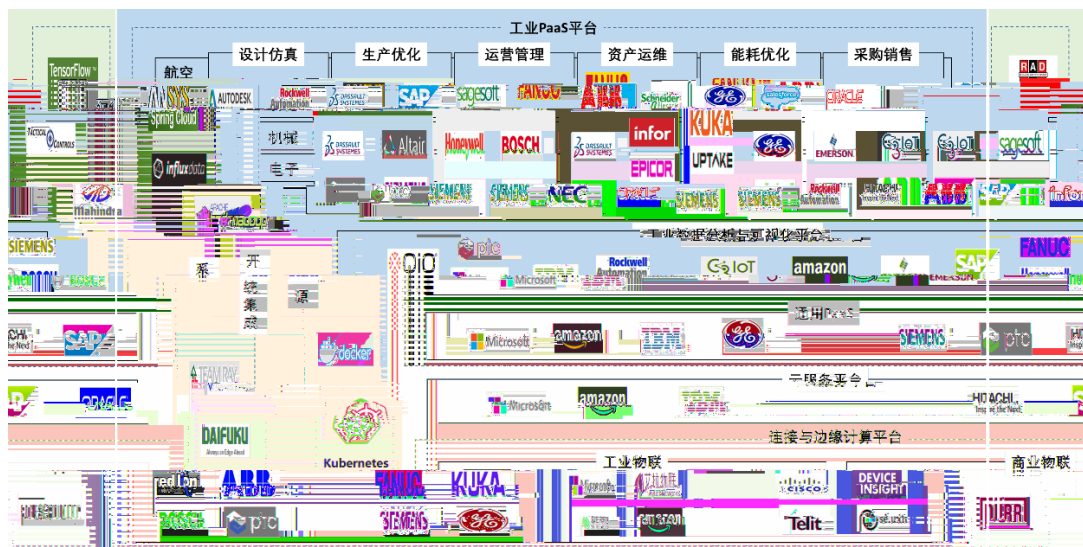
PLC

Kubernetes

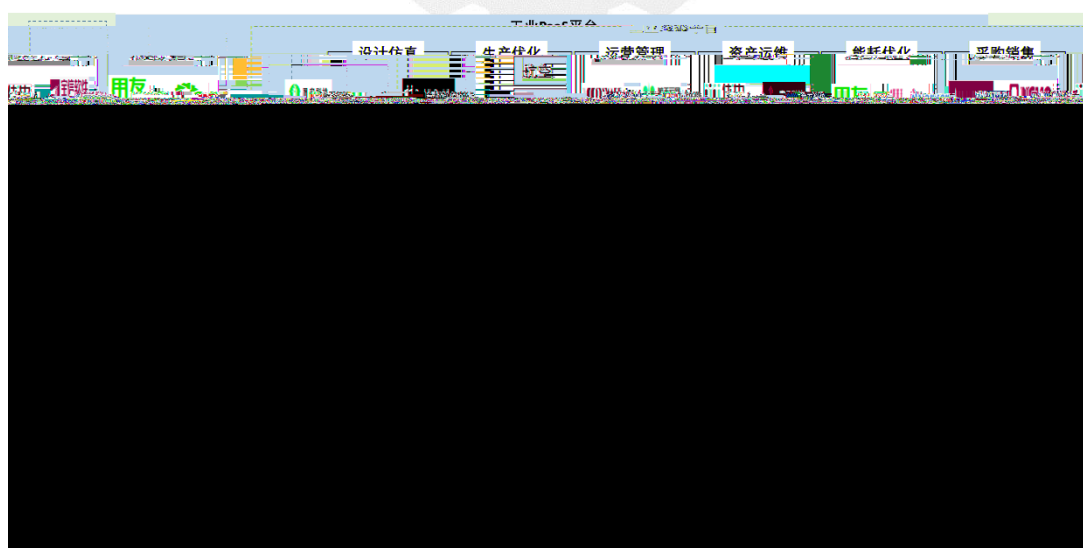
PaaS



2-3



7



8

PaaS

IT

PaaS

APP



PaaS

IT

PaaS

SaaS

1.

M2M

Ayla

Wi-Fi

15

NB-IoT

LTE-M

帮

IHS Markit

MindConnect Nano

S7

OPC-UA

MindSphere

Kepware

KEPServ

300

PLC

KEPServerEX

150

WISE

150

SDK

3

400

300

2.

PaaS

IT

PaaS

IT

工业互联网产业联盟

AWS

Azure

GE



PaaS

IT

AWS

PaaS

SAP

Cloud

Platform

PaaS

GE

CloudFoundry

PaaS

PaaS

PaaS

IT

UNIPower

3.



工业互联网产业联盟



Sentience

Meister

FactoryTalk Analytics

Lumada

Analytics

NeuSeer

IT

IT

Azure

AI

AI

AI

C3 IoT

C3 Predictive Maintenance

E-3

F-16

Thingswise

iDOS

EEwise

11.4%

PaaS

PaaS

SaaS

4. PaaS

PaaS

PaaS

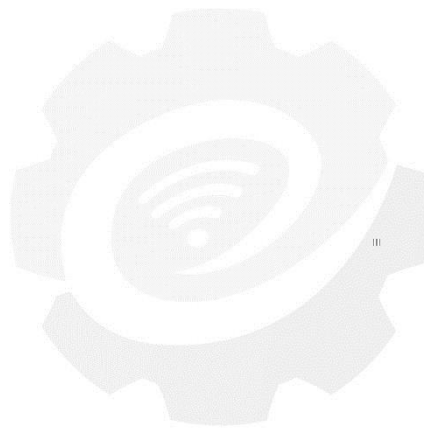
PaaS

PaaS

PTC

GE

ABB

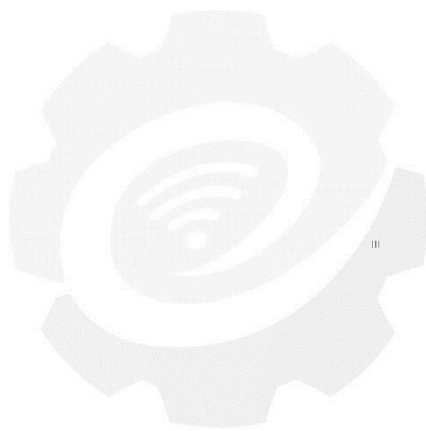


工业互联网产业联盟



COSMOPlat

BEACON



工业互联网产业联盟



ThingWorx

PTC

AR

2.



MMcloud

KUKAConnect



GE

Predix

Proficy APM OPM iFIX

Historian

PaaS SaaS

ANSYS Infor

ANSYS

Infor ERP

ERP

Altair

CAD

CAE

PDM

Altair SmartCore

Autodesk

Fusion Connect

CAD

PLM

工业互联网产业联盟



Lumada

SPINEX

AI

3.

Uptake

薄

APT

C3 IoT

Sight machine

工业互联网产业联盟



SaaS

SaaS

4-6

1.

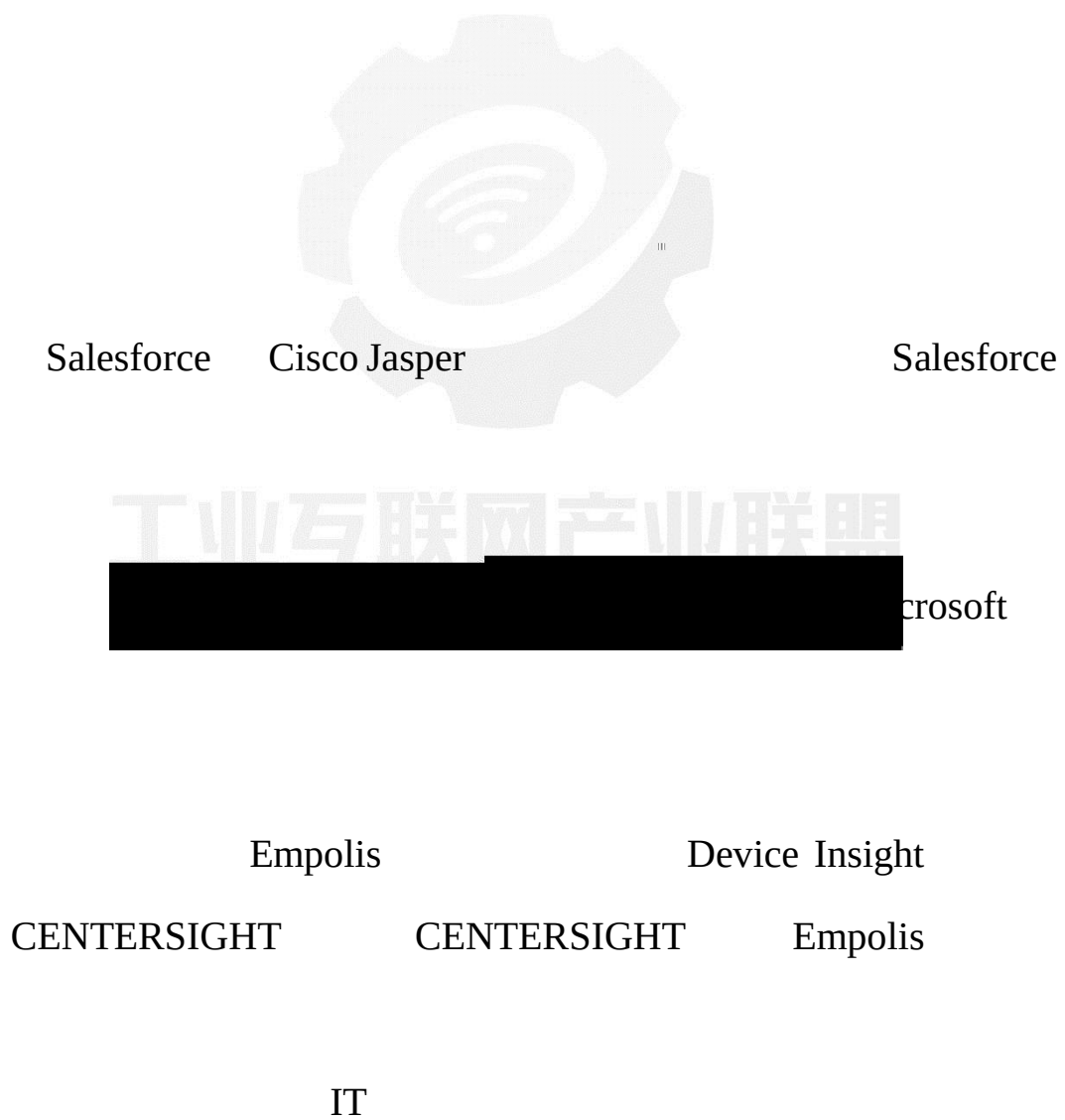
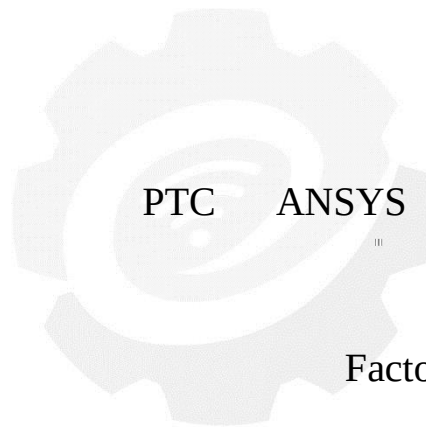


ABB Ability

IBM Watson

ABB



Factorytalk

FIELD System

工业互联网产业联盟

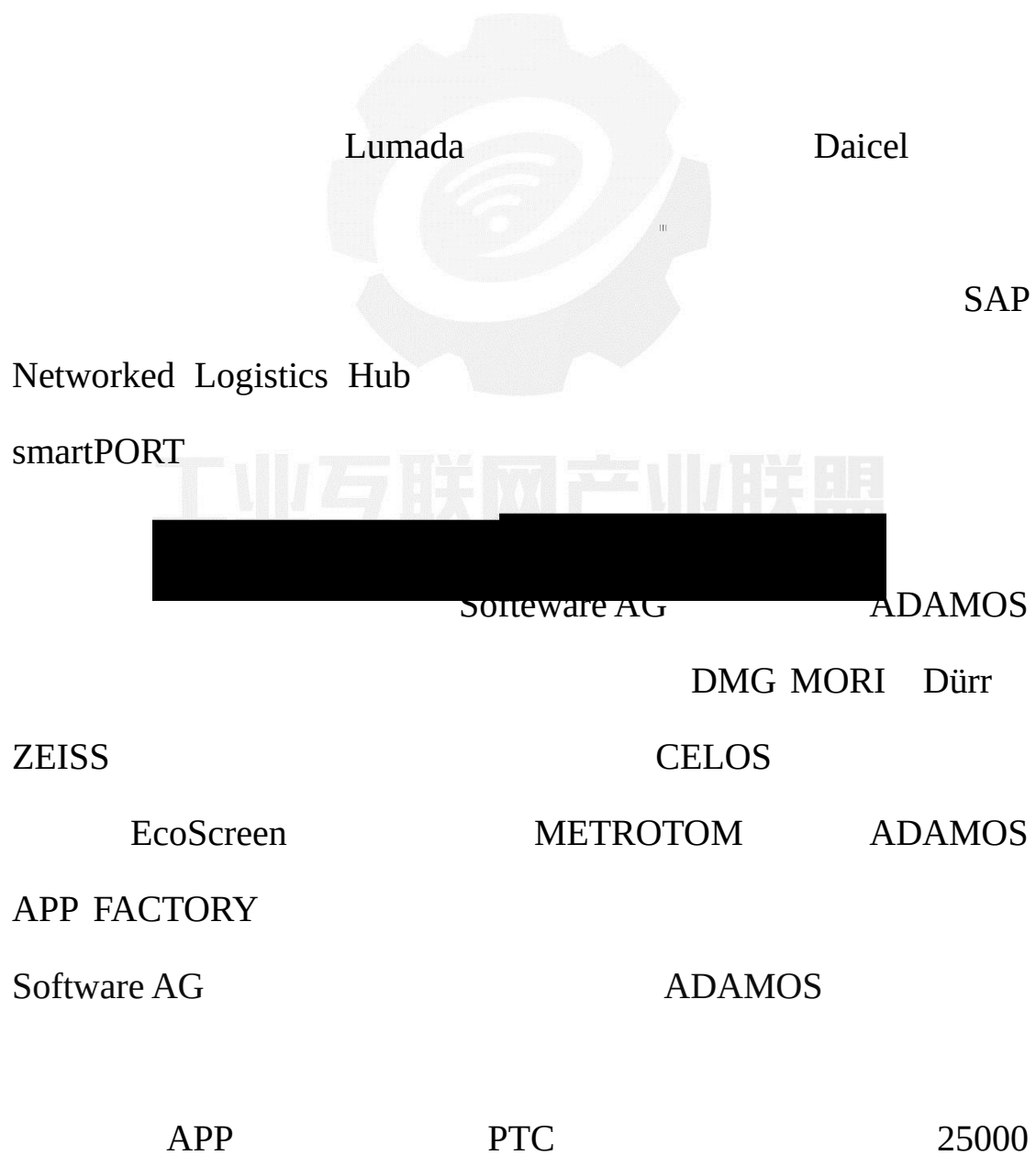
Ord

ERP CRM

包

IT

2.



600

PTC

PTC

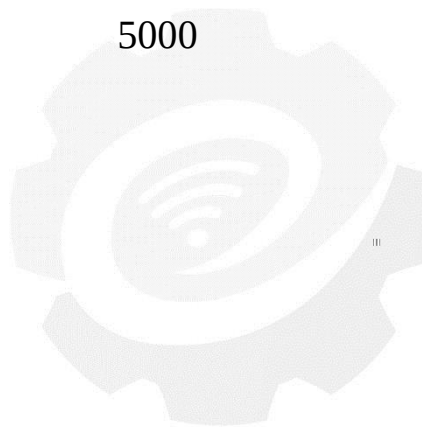
PTC

Marketplace

GE

5000

3.



工业互联网产业联盟

IT



SaaS

SaaS

SAP

Accenture

AtlantConsult

ERP

SaaS

包

IT

McRae Integration

Sleeman

Factorytalk

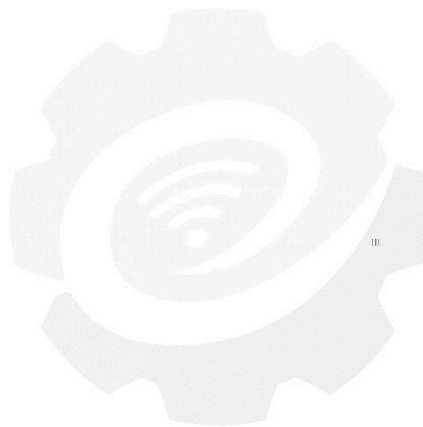
PlantPAx

Sleeman

50%

COSMOPlat

IT

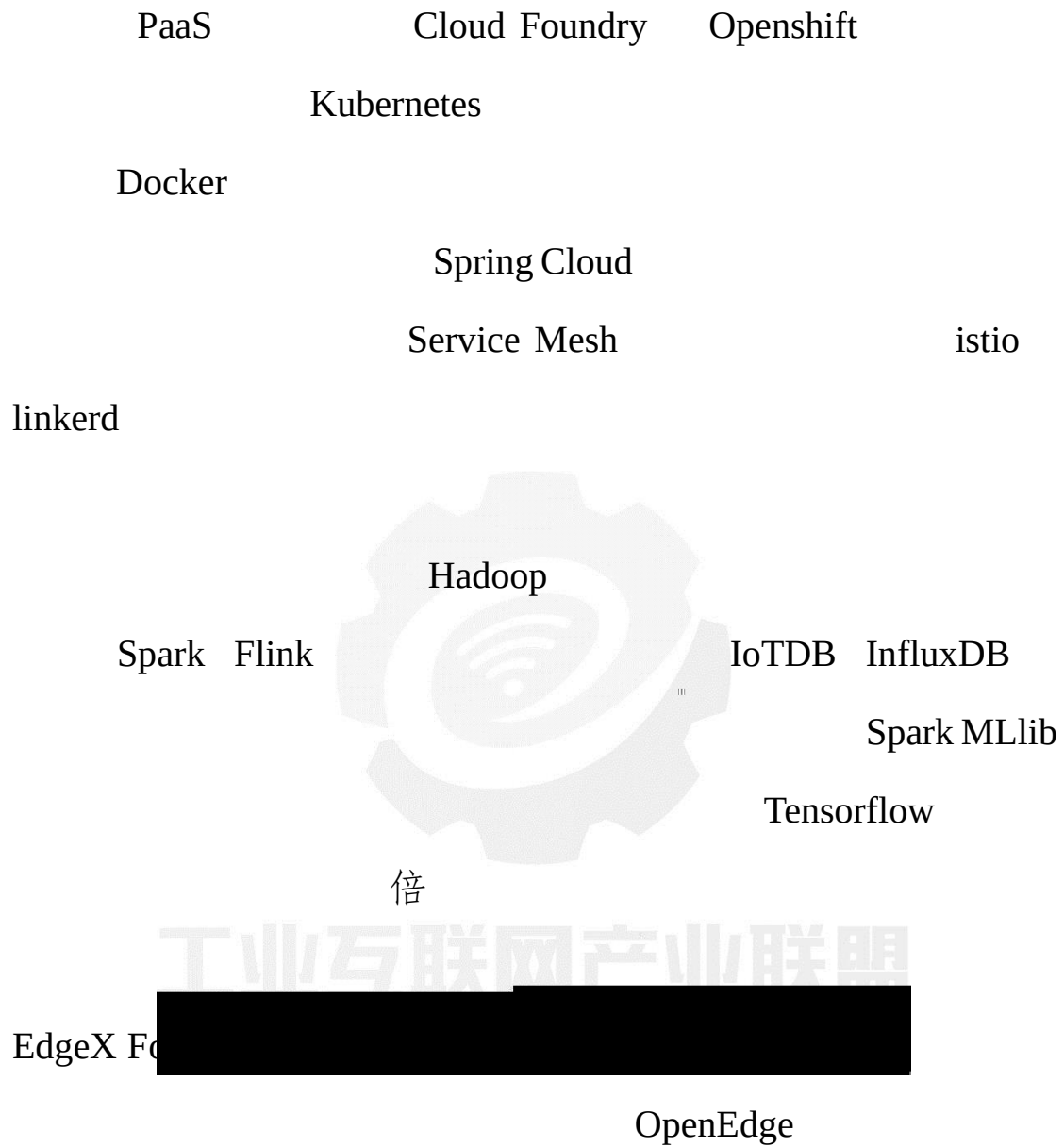


工业互联网产业联盟

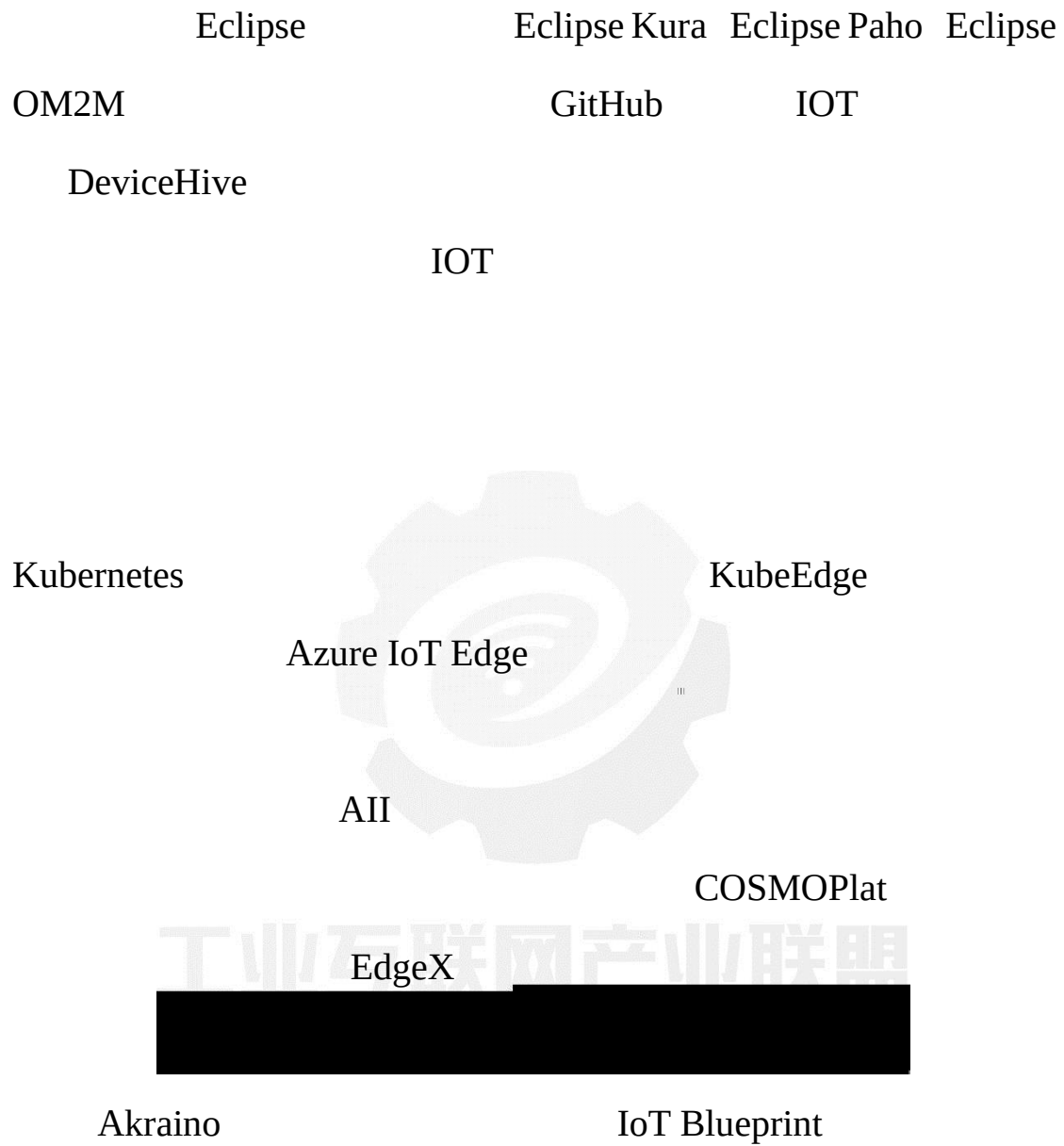


1.

PaaS



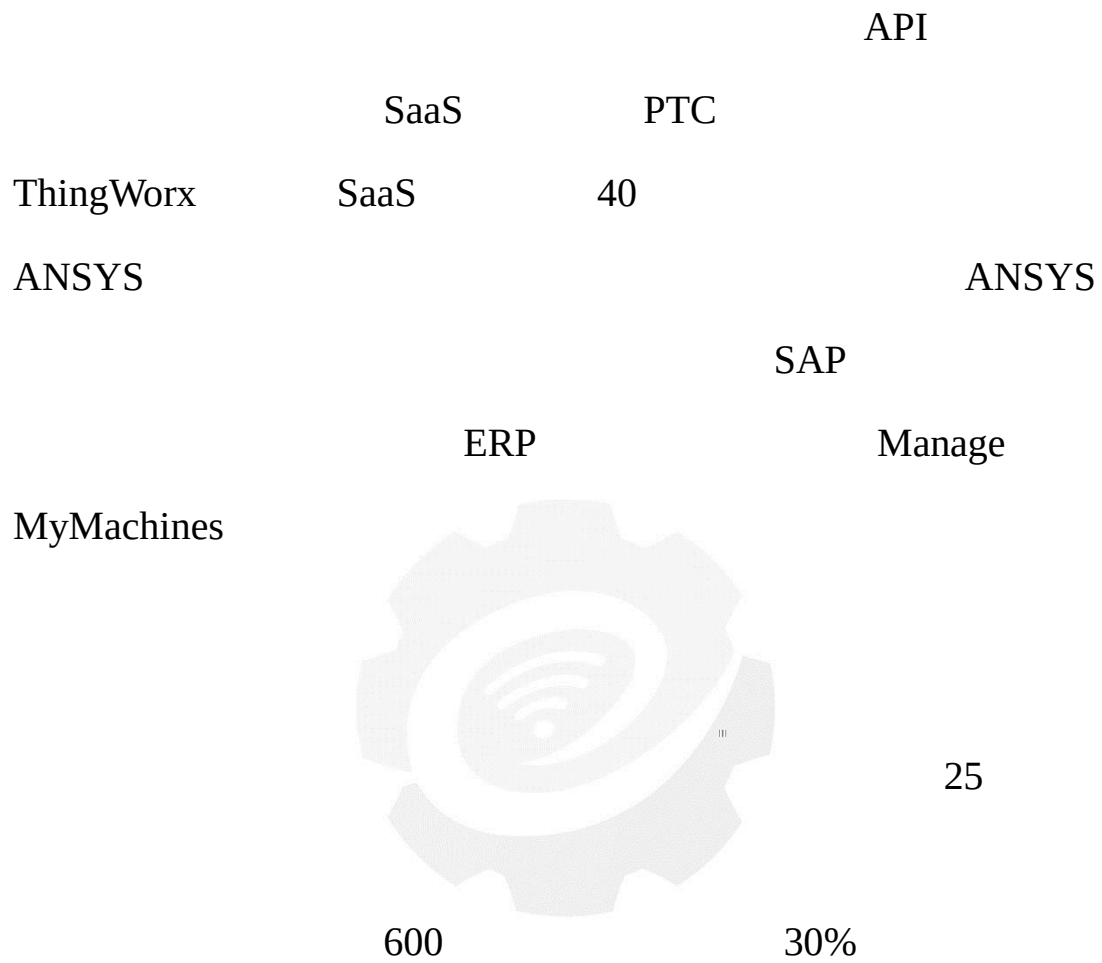
2.





工业互联网产业联盟





工业互联网产业联盟

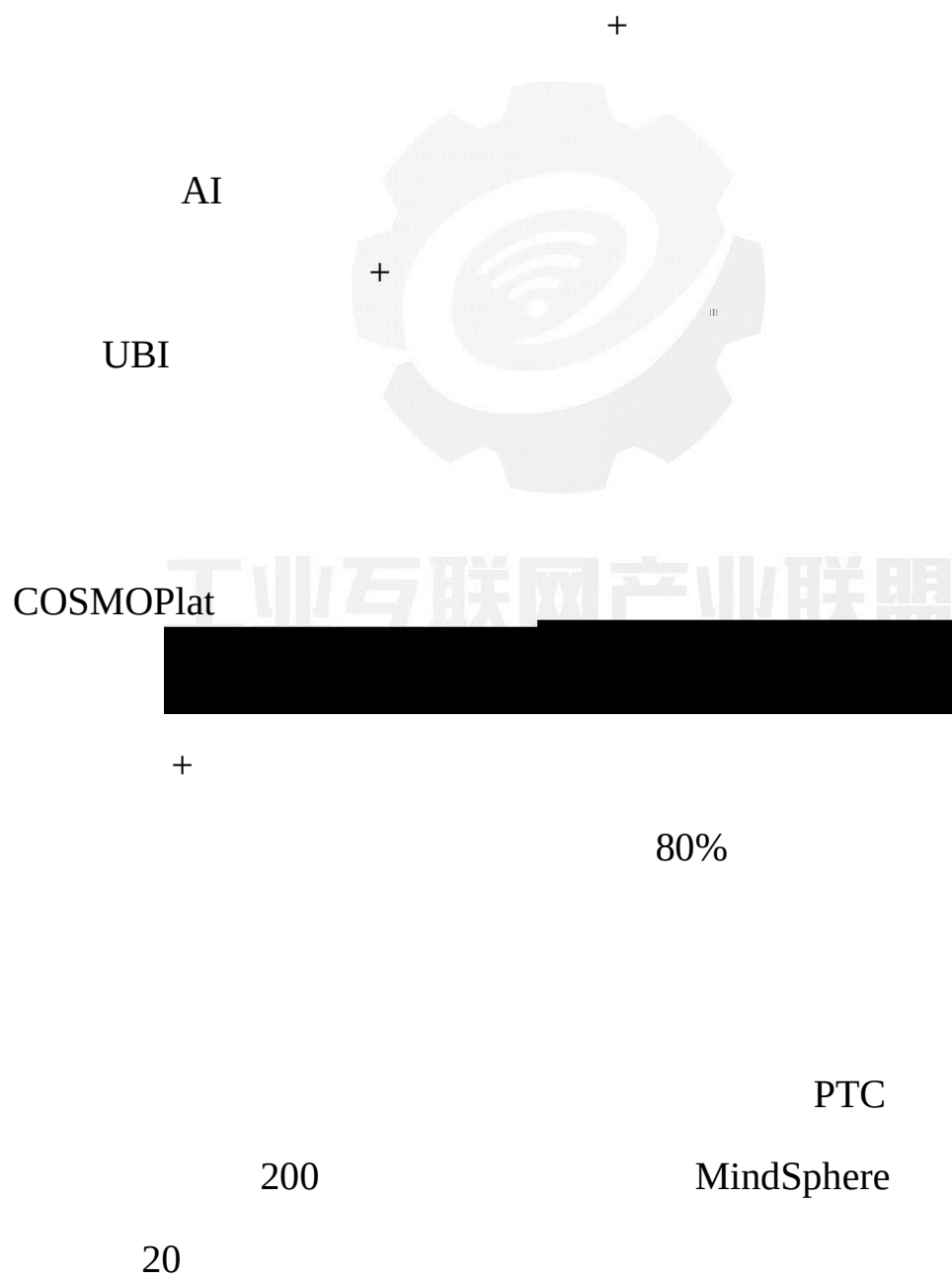


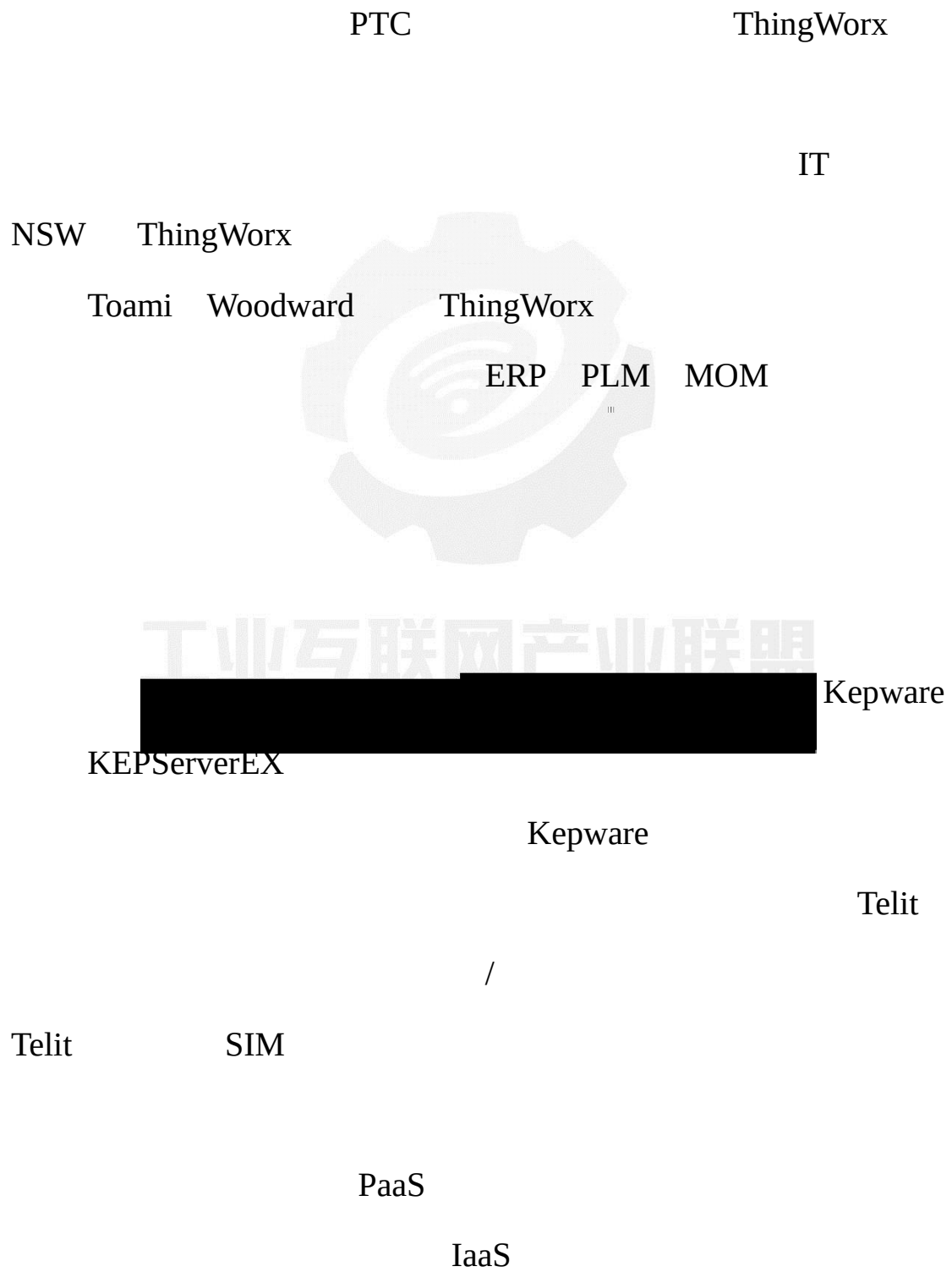
C

700

iSESOL

INDICS





包

Azure

100

PaaS



APP

工业互联网产业联盟



300

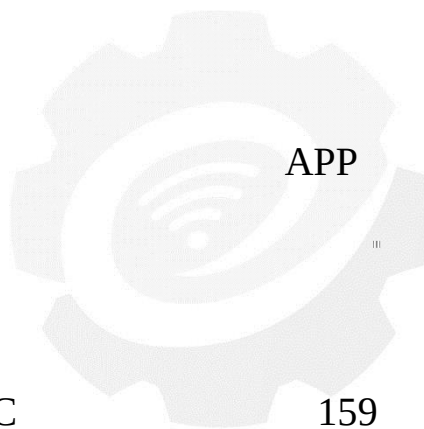
2

50

包

500

2000



Salesforce

PTC

159

172

58

工业互联网产业联盟



90%

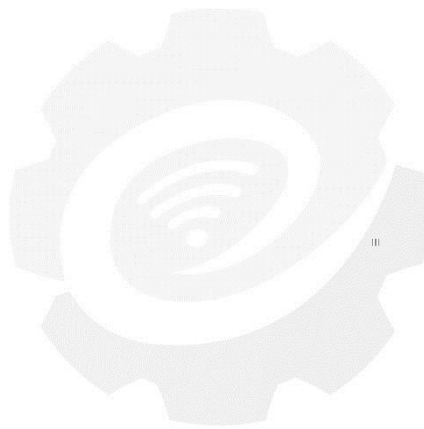
包

40%

50%

ABB

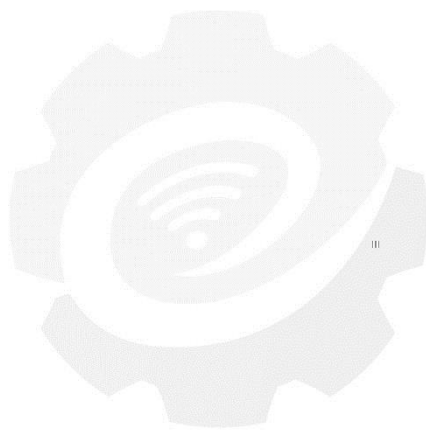
10



工业互联网产业联盟



- -



工业互联网产业联盟



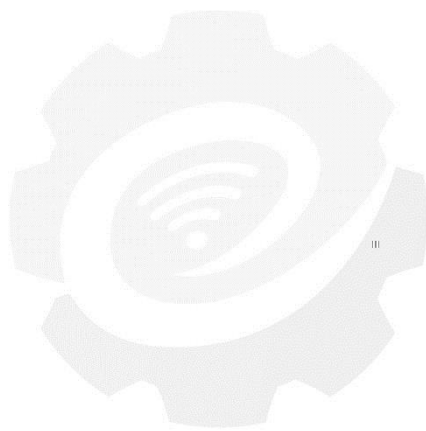
APP



工业互联网产业联盟

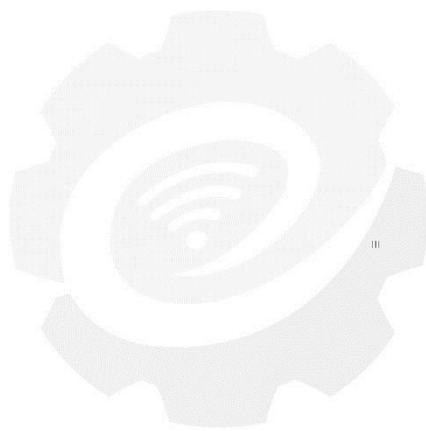


APP



工业互联网产业联盟





工业互联网产业联盟

