



## **EXERA IN A FEW WORDS**

**January 2020**



## **EXERA: 40 years servicing industry**

- **Born in 1974: 40+ years of cumulated experience...**
- **Association reserved to companies operating measurement and regulation equipment/devices, or automation**
- **Around thirty members in France**
- **Aims of the association:**
  - **Exchanging and sharing experiences among members**
  - **Evaluating equipment/devices and follow-up**
  - **Writing guides of good practices**
- **Around hundred experts active within the association**
- **A dozen active technical committees**



# Our members





## The association...

- **Around 120.000 EUR spent every year in studies contracted to laboratories**
- **With leverage (participation of suppliers, grants...), the amount allocated to studies reaches 140.000 EUR per year**
- **A rigorous process involving all the members to select the new projects of studies**
- **Strong links with the main independent laboratories entrusted to conduct the studies**
- **Restitution of committees' work through two to three technical days a year**
- **Manufacturers Days organized with the major manufacturers such as Schneider Electric, Siemens, Rockwell Automation...**
- **Cooperation et exchanges with equivalent organisms in UK, Germany, the Netherlands and Italy**



## A dozen active technical commissions

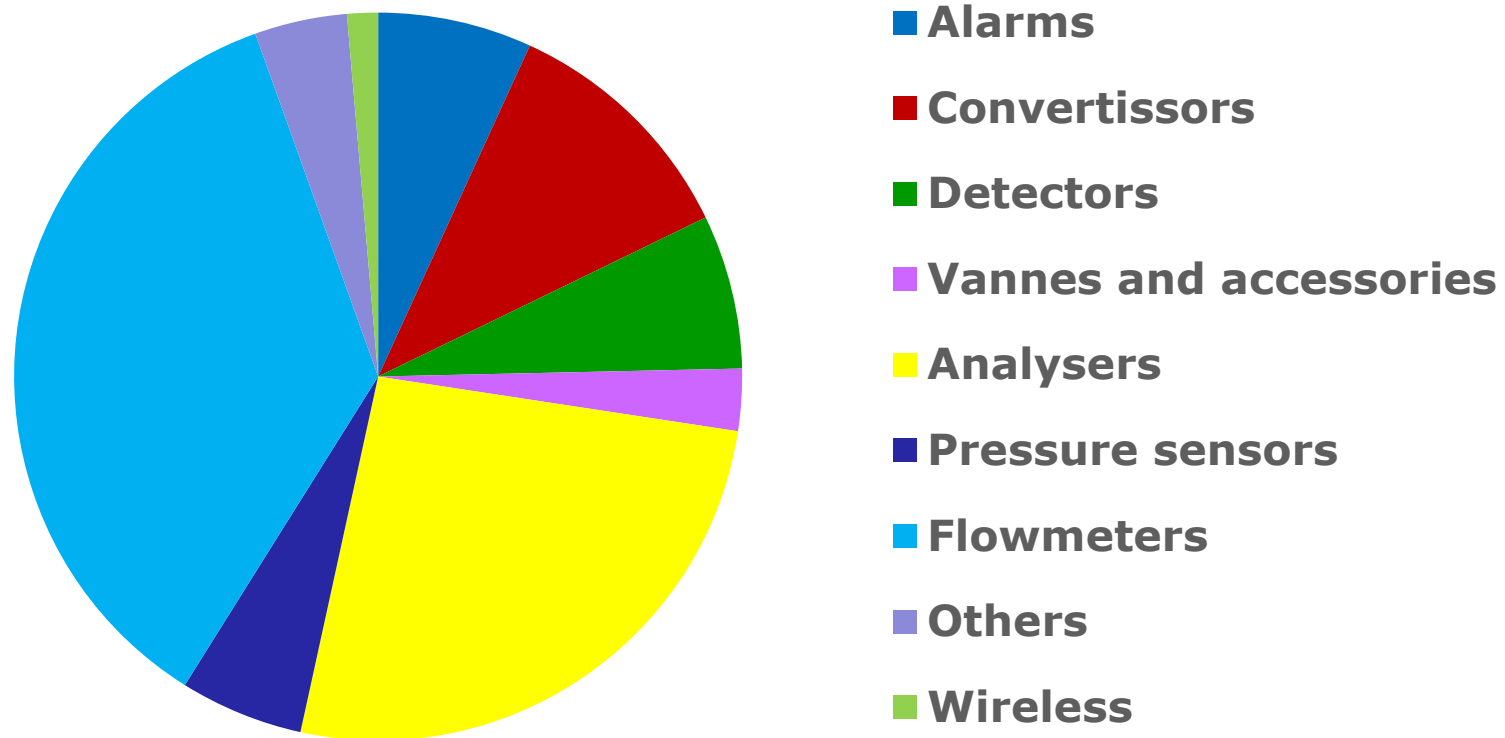
- Safety Instrumented Systems TC SIS
- Factory of Future TC EIF
- Cybersecurity of Industrial Systems TC CIS
- Control and monitoring system, Supervision, Simulation and Programming TC 3SP
- Measure, New Technologies TC MNT
- Flow Measurement - Level Measurement TC DEB-NIV
- Remote Sensing and Thermography TC TD-TG
- Industrial Transmitters and Networks TC TIR
- Industrial Analyzers / Detection and Safety TC AI-DS
- Air Environnement TC ENV-AIR
- Maintenance in Operational Conditions TC MCO



## Some eloquent indicators...

**Analysis of 73 evaluations conducted from 2008 to 2012  
by Evaluation International (UK), WIB (NL) and Exera (F)**

### Nature of tested devices

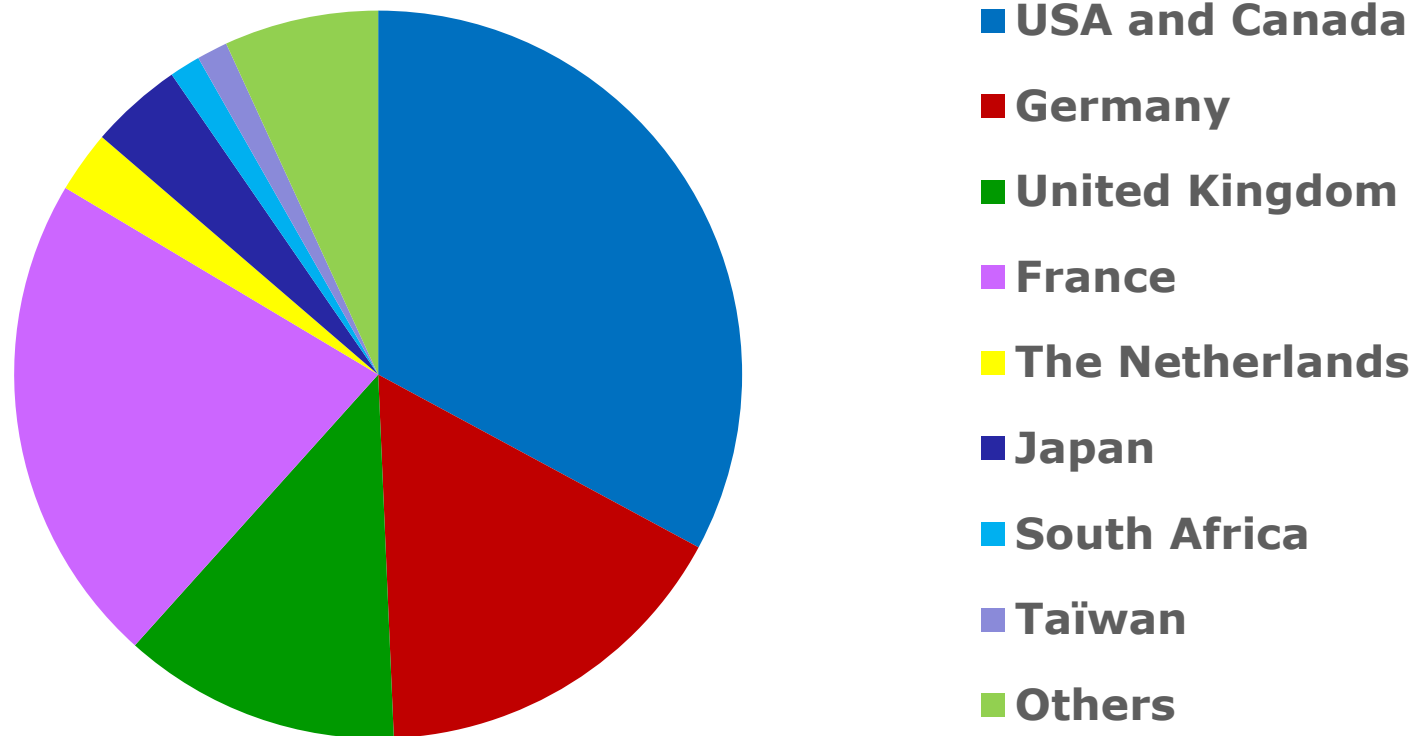




## Some eloquent indicators...

**Analysis of 73 Evaluations conducted from 2008 to 2012  
by Evaluation International (UK), WIB (NL) and Exera (F)**

### Nationality of manufacturers





## Some eloquent indicators...

### Results from the reports' analysis

<b>Analysis criteria</b>	<b>Results</b>
<b>Condition upon reception</b>	<b>7% of supplied devices defective</b>
<b>Compliance to claimed specifications</b>	<b>36% of devices non-compliant</b>
<b>Sensitivity to influence quantities</b>	<b>71% of devices out of specification</b>
<b>Reliability during tests</b>	<b>7% of devices broken or damaged during tests</b>
<b>Quality of technical documentation</b>	<b>59% of notices deemed incomplete</b>





# Exera technical commissions' activities

<b>Technical Commissions – Exera</b>	<b>Average number of attendees in 2019</b>	<b>Number of meetings in 2019</b>	<b>Number of meetings in 2018</b>
<b>Safety Instrumented Systems</b>	9	4	5
<b>Industrial Organization of the Future</b>	5	7	5
<b>Cybersecurity of Industrial Systems</b>	14	6	6
<b>Control and monitoring system, Supervision, Simulation and Programming</b>	4	5	6
<b>Measurement, New Technologies</b>	5	5	6
<b>Flow Measurement - Level Measurement</b>	8	4	4
<b>Remote Sensing and Thermography</b>	5	2	5
<b>Industrial Transmitters and Networks</b>	5	5	8
<b>Industrial Analyzers / Detection and Safety</b>	6	5	7
<b>Air Environment</b>	5	2	3
<b>Maintenance in Operational Conditions (MOC)</b>	6	5	5



# A large library of reports for our members...

The on-line library of reports is exclusively available to Exera members.

Reports are categorized in evaluations, selection guides, questionnaire and others.

The reports come from work carried out under the supervision of the technical commissions of Exera and the CLUI, and also of Evaluation International (EI), a British association with which Exera is linked by a report exchange agreement.

## Period [2009 – 2019] : 300+ reports uploaded

### Breakdown of reports by nature and origin

Year	Total	Origin				Evaluation(s)				Selection guide				Questionnaire				Others				
		Exera	EI	WIB	CLUI	Exera	EI	WIB	CLUI	Exera	EI	WIB	CLUI	Exera	EI	WIB	CLUI	Exera	EI	WIB	CLUI	
2009	27	11	10	6	0	11	6	6	0	0	2	0	0	0	0	0	0	0	0	2	0	0
2010	44	28	10	5	1	17	5	4	0	1	2	0	0	1	0	0	0	9	3	1	1	
2011	44	22	16	2	4	15	5	1	2	1	2	0	0	2	0	0	0	4	9	1	2	
2012	23	14	4	0	5	8	2	0	2	3	0	0	0	0	0	0	0	3	2	0	3	
2013	19	7	9	2	1	2	7	0	0	0	1	0	0	1	0	0	0	4	1	2	1	
2014	39	29	8		2	17	8		1	0	0		0	10	0		0	2	0		1	
2015	23	12	8		3	12	5		2	0	1		0	0	2		0	0	0		1	
2016	10	5	4		1	2	1		1	2	0		0	0	0		0	1	3		0	
2017	18	16	2		0	11	2		0	3			0	0	0		0	2	0		0	
2018	26	19	4		3	14	4		0	1	0		1	2	0		0	2	0		2	
2019	34	28	6			23	0			2	0			0	0			3	6			

**CLUI:** Exera's Italian branch shut-down on December 2016

**WIB:** Dutch association



## Technical Days in 2019

**Flow measurement – Level measurement**  
**5 June in Paris**  
**53 attendees, 12 speakers, 5 booths**

**Cybersecurity of industrial systems**  
**26 septembre à Paris**  
**155 attendees, 14 speakers, 12 booths**

## Technical Days planned in 2020

**Factory of the Future – Industry 4.0**  
**11 June in Paris**

**Cybersecurity of industrial systems**  
**24 September in Paris**



# **Samples of recent activities...**

## **Period 2016-2019**



# Application guide for norm EN 61511

Subject : Application guide of EN 61511 Norm

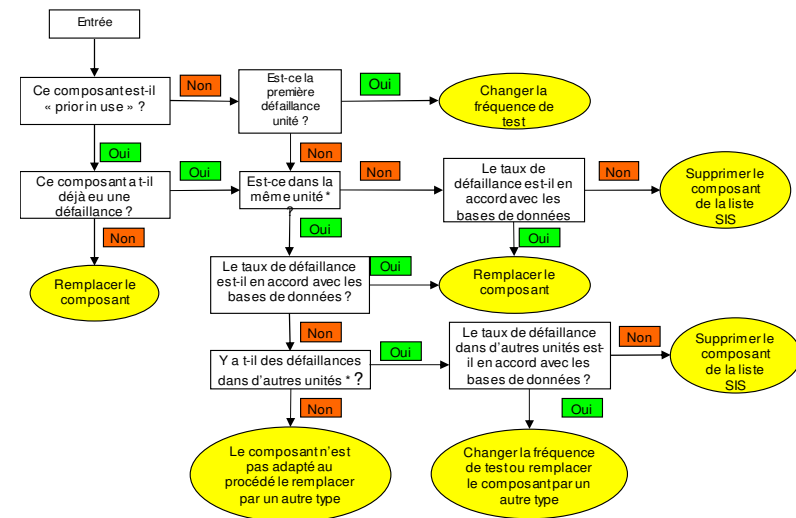
Initiating TC : TC SIS

Cost : 0 EUR HT

Author : TC SIS

Manufacturers : Not applicable

Outcome : 1 guide



**GUIDE RELEASED IN 2016**

Evaluation	: 2 thermal mass flow-meters
Initiating TC	: TC DEB-NIV
Amount	: 36 000 EUR HTVA
of which third-parties	: 10 000 EUR HTVA
Laboratory	: CETIAT
Manufacturers	: Endress+Hauser, Fluid Components International
Outcomes	: 2 evaluation reports Sharing competences and experience of Exera members Market Survey



**REPORTS RELEASED IN 2017**

Evaluation : 3 extraction ovens

Initiating TC : TC ENV-EAU

Amount : 14 670 EUR HTVA  
of which third-parties : 2 400 EUR HTVA

Laboratory : INERIS

Manufacturers : Berghof, CEM

Résultats : 3 evaluation reports  
Sharing competences  
and experience of Exera members  
Market Survey



**REPORTS RELEASED IN 2017**



# Sound-meters and sound-metering apps

Evaluation : 4 sound-meters  
2 applis for smartphones



Initiating TC : TC MNT



Amount : 22 300 EUR HTVA  
of which third-parties : 2 000 EUR HTVA



Laboratory : LNE



Manufacturers : Brüel & Kjaert, Cirrus Research, Larson Davis,  
Norsonic

Apps Editors : Fabien Lefebvre for SPLnFFT-iOS app  
Sylvain Saurel for SPL Sound Meter-Android app

Outcomes : 6 evaluation reports  
Awakening to opportunities from smartphones

**REPORTS RELEASED IN 2017**



Subject : Measurements of corrosion for help in its control



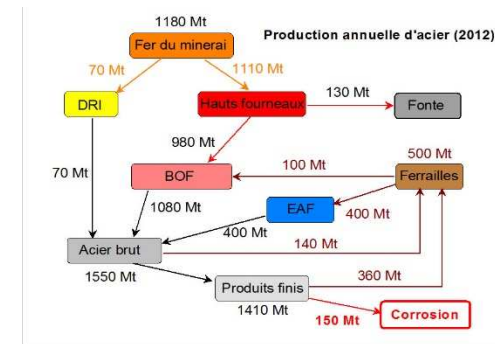
Initiating TC : TC AEI

Amount : 0 EUR HTVA

Author : Technical Commission

Manufacturers : Not applicable

Outcome : 1 guide



**GUIDE RELEASED IN 2017**



# Guide MCO of electronical systems

Subject : Preparing call for bids for operations of reconstruction of electronical systems

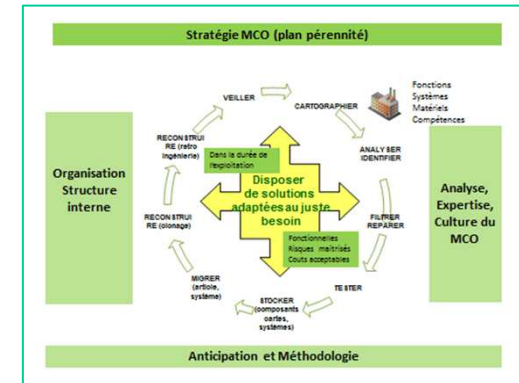
Initiating TC : TC MCO

Amount : 0 EUR HTVA

Author : Technical Commission

Manufacturers : Not applicable

Outcome : 1 guide



**GUIDE RELEASED IN 2017**



# Fixed Detectors of oxygen deficiency

Evaluation : 7 fixed detectors of oxygen deficiency

Initiating TC : TC AI-DS

Amount : 62 800 EUR HTVA  
of which third-parties : 19 800 EUR HTVA

Laboratory : INERIS

Manufacturers : Dräger, GE, Honeywell, MSA, Oldham, Servomex, Simtronics

Outcomes : 7 evaluation reports



**REPORTS RELEASED IN 2018**



# Ambient air quality monitoring systems

Evaluation : 5 ambient air quality monitoring systems



Initiating TC : TC ENV-AIR

Amount : 77 000 EUR HTVA  
of which third-parties : 5 000 EUR HTVA



Laboratory : INERIS

Manufacturers : Azimut Monitoring, Cairpol,  
Ecomesure,  
Environmental Instruments,  
Rubix S&I



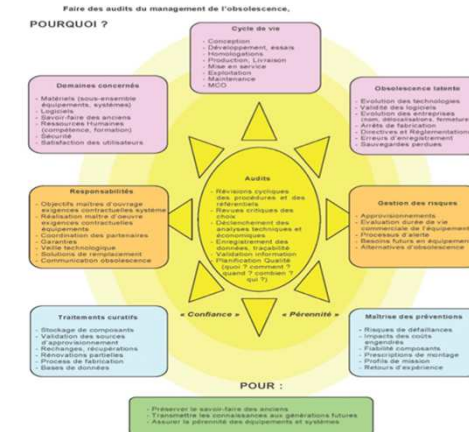
Outcomes : 5 evaluation reports

**REPORTS RELEASED IN 2018**



# Field reviews of MOC companies

- Subject : Field reviews of MOC companies for electronics equipment
- Initiating TC : TC MCO
- Amount : 0 EUR HTVA
- Author : Technical Commission
- Audited companies : Adlc - Aeti – Aserti – Assystem – Cofiem – Elliot Informatique - Eolane – ID Rep – Pereneo Industechnic – MID Electronic – Tronico Rolls Royce Nuclear Services France
- Outcomes : 13 reports on field reviews



**REPORTS RELEASED DURING 2014 - 2018**

Evaluation : 3 levelmeters

Initiating TC : TC DEB-NIV

Amount : 97 800 EUR HTVA  
of which third-parties : 16 000 EUR HTVA

Laboratory : CETIAT

Manufacturers : Endress+Hauser, Krohne,  
Vega Technique

Outcomes : 3 evaluation reports



**REPORTS RELEASED IN 2019**



# Flowmeters for low liquid flows

Evaluation : 3 flowmeters  
for low liquid flows

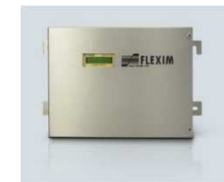
Initiating TC : TC DEB-NIV

Amount : 49 700 EUR HTVA  
of which third-parties : 10 200 EUR HTVA

Laboratory : CETIAT

Manufacturers : Bronkhorst, Flexim,  
Brooks Instruments

Outcomes : 3 evaluation reports



**REPORTS RELEASED IN 2019**



# Absolute pressure Transmitters

Evaluation : 8 transmitters [0 – 1 barA]  
7 transmitters [0 – 100 barA]



Initiating TC : TC TIR

Amount : 141 100 EUR HTVA  
of which third-parties : 53 900 EUR HTVA



Laboratory : MESTRA

Manufacturers : ABB, Emerson,  
Endress+Hauser, Honeywell,  
Schneider Electric, Siemens,  
Yokogawa



Outcomes : 17 evaluation reports



**REPORTS RELEASED IN 2019**



Subject : Solutions for the sustainability of technological facing risks of obsolescence

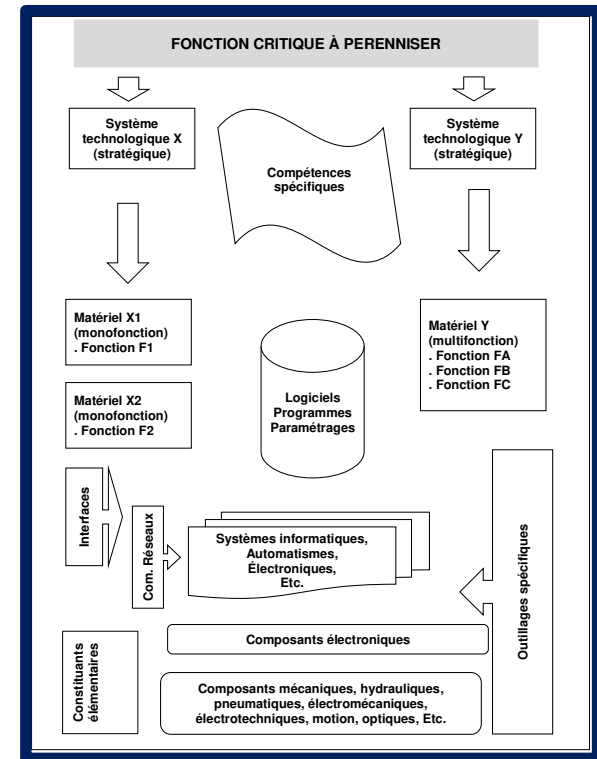
Initiating TC : TC MCO

Amount : 0 EUR HTVA

Author : Technical Commission

Manufacturers : N/A

Outcome : 1 guide



**GUIDE RELEASED IN 2019**



# Cybersecurity of industrial systemes

Subject : Preparatory work for the realization of clause guides for the purchase of services in the field of industrial installations

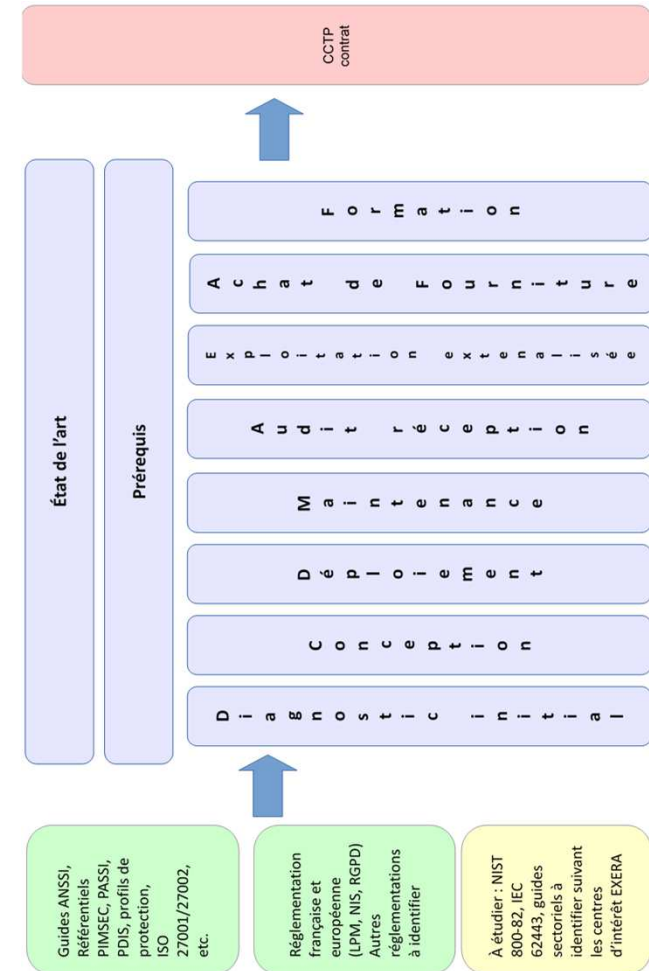
Initiating TC : TC MCO

Amount : 3 000 EUR HTVA  
of which third-parties : 0

Consulting firm : CERTitude Numérique

Manufacturers : N/A

Outcome : 1 guide



**GUIDE RELEASED IN 2019**



To contact us...

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