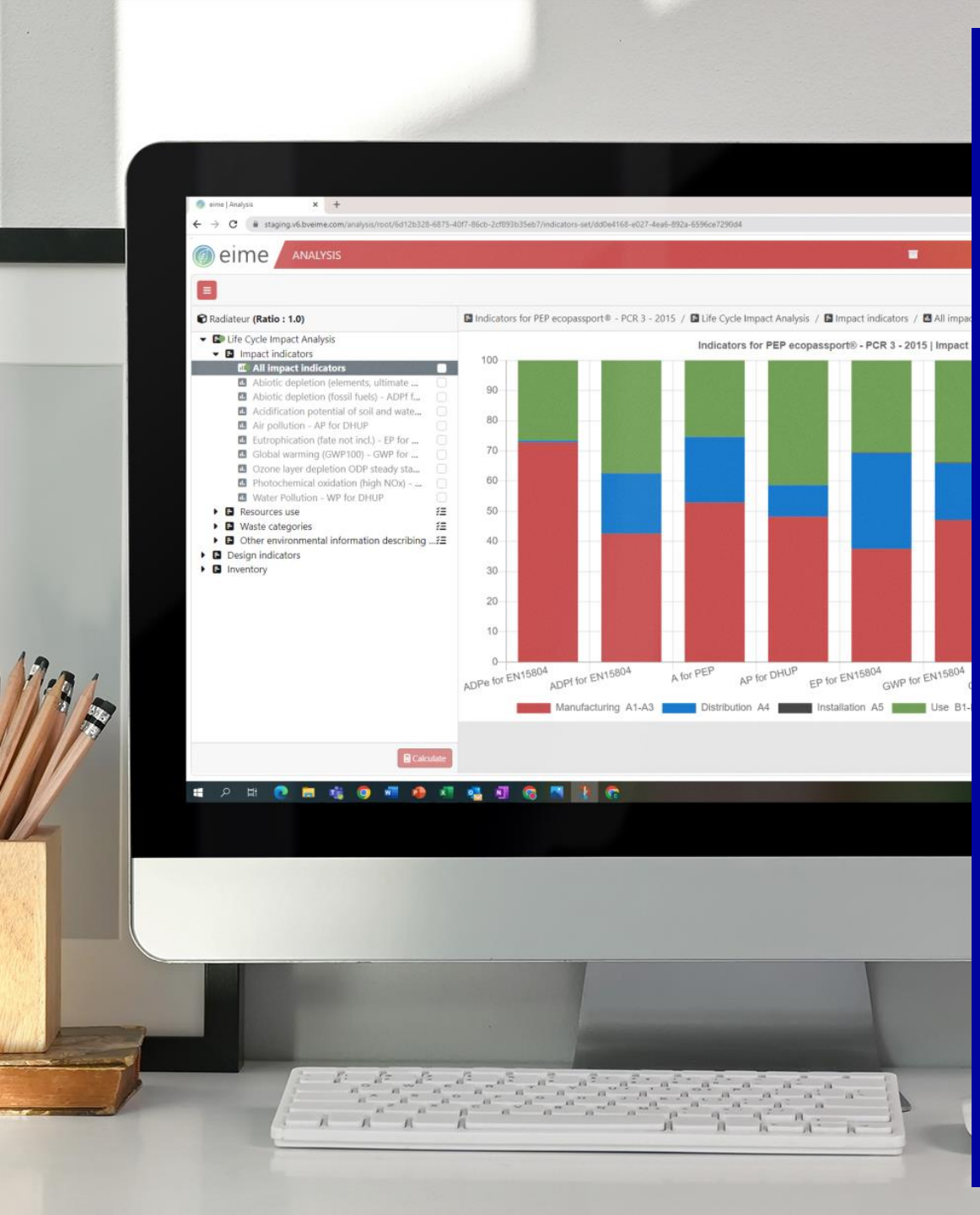
Presentation of the Sectoral databases

eime



BUREAU VERITAS 1828

L C I E

Presentation of the CODDE department and previous achievements

LCA & Ecodesign expertise since 1996

eime COMPASS · eime · eime API

MOIRANS (38)

A team of about twenty experts and developers

EIME: LCA & ECODESIGN SOFTWARE

Calculate the environmental impacts of your products and services to:

- Identifying avenues for eco-design
- Produce communication materials to promote your approach

Support
Life Cycle Assessment (LCA)
Identification of eco-design avenues

Audit & Verification
Critical review of LCA
Verification PEP ecopassport®, FDES, EPD System®
Certification BV Footprint Progress / Certification Process

Environmental Communication
PEP ecopassport®, FDES, EPD System®
…

Training

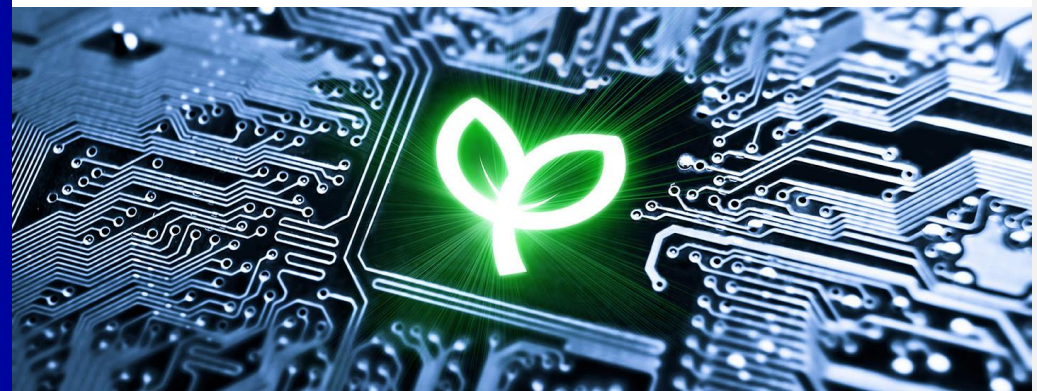
Software & Tools
User licenses
All'in PEP / Footprint Calculators

Our previous achievements

Impact of Digital in France and Europe

Measuring the digital footprint and identifying courses of action and best practices to reduce it

- Volet 1 et 2 - Adopt a comprehensive, robust and transparent approach – January 2022
- Volet 3 - Anticipating future developments – March 2023



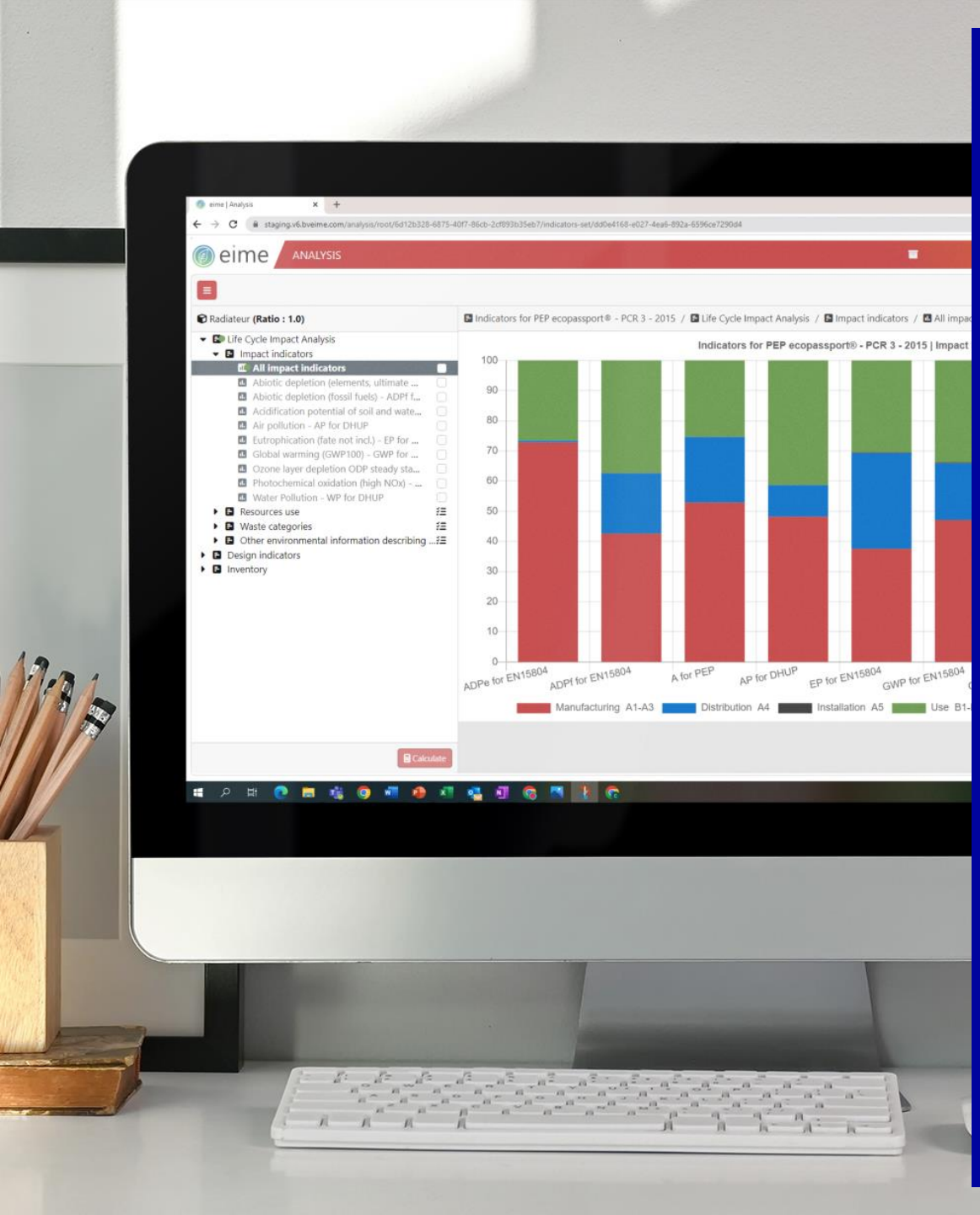
BUSINESS SUPPORT

Integration of eco-design principles for digital services

DATABASE & EVALUATION REPOSITORIES

Creation and development of reference document

- Digital Service – July 2021
- Provision of Internet access – November 2023
- Data Center IT Hosting and Cloud Services Services – January 2023
- LAN network and business telephony services– January 2023
- Internet access equipment– December 2025



BUREAU VERITAS 1828

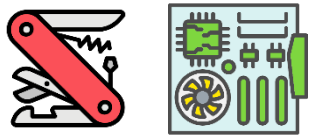
L C I E

Presentation of the data developed

EIME DATABASES

CODDE®

- Developed in-house
- Integrated Life Cycle Inventory by Industry Partners



ecoinvent

- The world's most well-known lifecycle inventory database
- Ecoinvent 3.11 et 3.10.1

** Not all EIME features are available with this database.*

PEF

- Product Environmental Footprint: for environmental labelling
- PEF EF 3.0/ EF 3.1

** Not all EIME features are available with this database.*

COMPLIANCES & ENFORCEMENT CODDE®

The CODDE® database meets the requirements of ISO 14040/44/67, EN 15804+A2 as well as the ILCD entry level requirements on EIME in order to facilitate data management, automation and updating. The planned applications are:

Environmental Product Declarations type III (PEP ecopassport, EPD System, FDES) ISO 14025

Especially PSR 5 et PSR 6

ITU L.1410 / ETSI 203 199 Information and communication technology goods, networks and services

ISO 14040/44 LCA study, comparative or non-comparative

Product Carbon Footprint Statements (PCF)

ADEME standards on digital services

Eco-design assistance

The CODDE® database

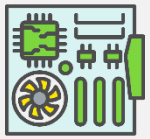
The CODDE® industry database "Electrical & Electronics" is included by default when acquiring the generic CODDE® database.

GENERIC

Quarterly Update

• **Energy production**	300 data
• **Material Production**	500 data
• **Processes**	15 data
• **Transport**	45 data
• **End-of-life treatment**	150 data
• **Diverse**	105 data
	1 115 data

ELECTRIC & ELECTRONICS



Last updated CODDE 2025-04

• **Energy production**	30 data
• **Processes**	115 data
• **Components**	290 data
• **End-of-life treatment***	1 446 data
	1 881 data

**Includes data from the Ecosystem Recylum database*

SECTORAL DATA

CODDE®

MicroElectronics

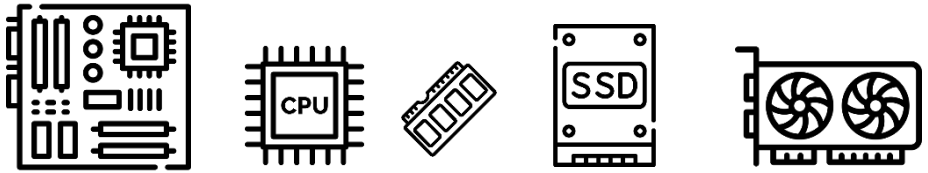
Need to be used in **conjunction** with

the ***Electric & Electronics*** database

- Energy production **20** data*
- Components ∞ data**

** Regionalized areas (GLO, APAC, RER)*

*** Configurable geographical areas and engraving levels*



+ de 100 data

Digital

Need to be used in **conjunction** with

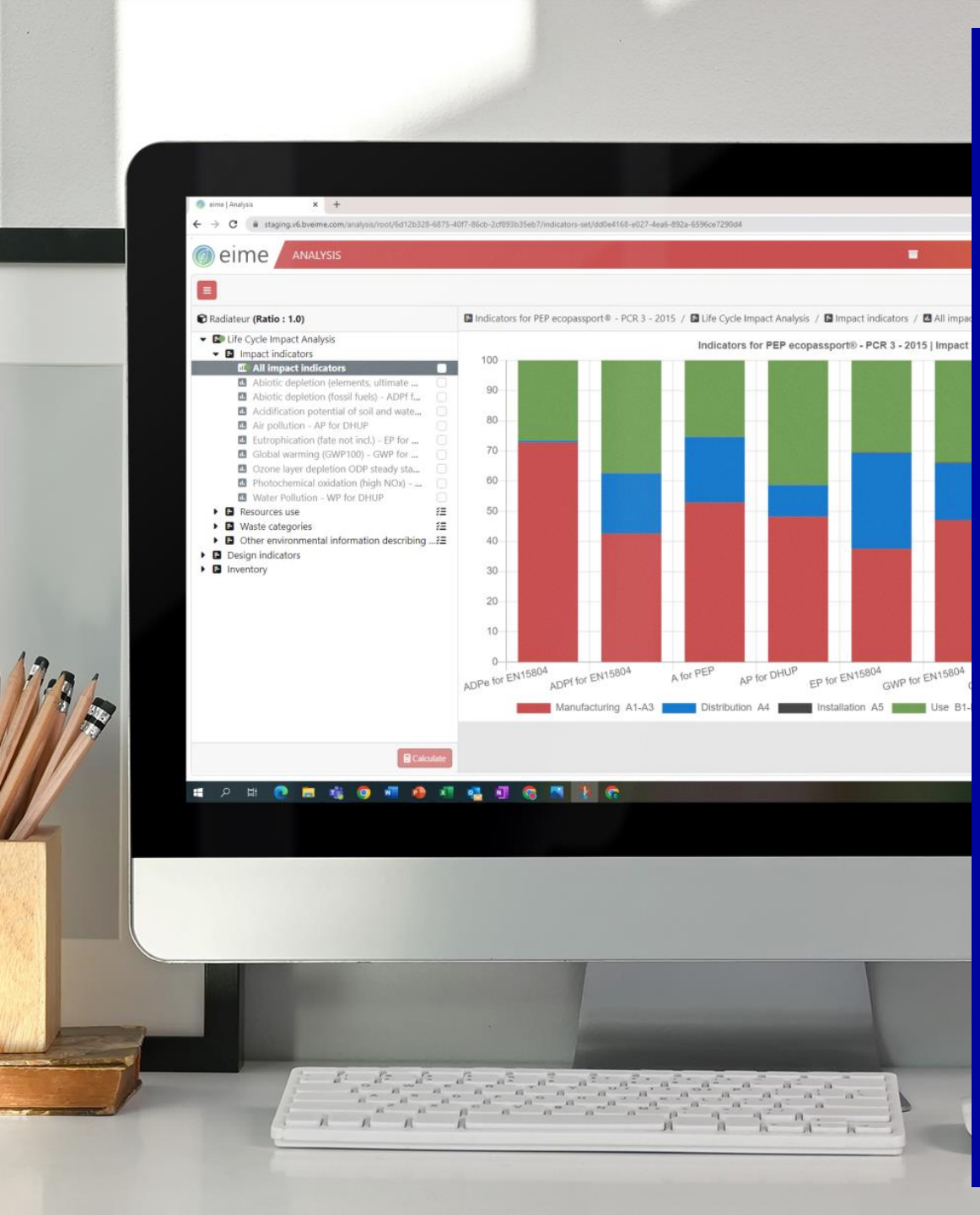
Electric & Electronics and ***MicroElectronics*** database

- IT Equipment **150** data
- Terminals **55** data
- Telecom*** **8** data

**** 4 geographical areas*

+ de 100 data

Modeling configurators for data customization



BUREAU VERITAS 1828

L C I E

In concrete terms: Examples of use with EIME software

CODDE® DATA CONSTRUCTION

- Ensuring compliance [0:100][100:0]
  - ✓ Materials and components contain **0% recycled material**
  - ✓ The end-of-life treatment of waste, necessary for the creation of material and component data, will be carried out via treatments that **do not include recovery**
  - ✓ The **end-of-life treatment of components/equipment will be modelled by the user** with data from the CODDE® Generic and E&E database

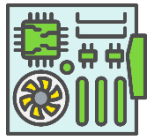
- Set of indicators based on the characterization factors established by the European Commission
  - ✓ Indicator set "**EN 15804+A2 - PEF 3.1 indicators**"
  - ✓ 🆕 Indicator set"**Indicators for digital services and equipment v2.0**" complemented by indicators adapted to the digital sector

Specific MicroElectronics

The regions will be segmented by Wafer market positioning according to engraving level (GLO, APAC et RER).

- Geographical areas
  - ✓ **3 Regions** (GLO, APAC, RER).
  - ✓ **9 country** (Taiwan, Korea, Japan, China, USA, Germany, Netherlands, France, Italy)

SECTORAL DATA



Electric & Electronics

MicroElectronics

WAFER ENGRAVING TECHNOLOGY

130 nm (20 masks)

130 nm to 7 nm (20 to 75 masks)

GEOGRAPHIC AREA

APAC and GLO
based on production market shares
Wafers with 130 nm technology

APAC and GLO
based on wafer production market shares
technology
90-45 nm
32-12 nm
10-5 nm

SECTORAL DATA

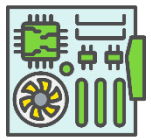
List

LCI data	+ de 100	+ de 100
Configurable and configurable LCI data	1 data (990 configurations)	8 data (infinity of configurations)
Base year	≥ 2020	≥ 2020
Geographic area	Up to 18 zones	Until 18 zones
Model System	[100:0] [0:100]	[100:0] [0:100]
Indicators	Set based on EF 3.1 Bio carbon content. [-1/+1]	Set based sur EF 3.1 Bio carbon content. [-1/+1]
Update	1 time a year *	1 time a year *

Annual publication synchronized with the CODDE® database and all other sectoral databases.
Includes: the evolution of electricity mixes according to the IEA and technological developments in semiconductor production.

ADDITIONAL DATA?

Components



Equipment

Other

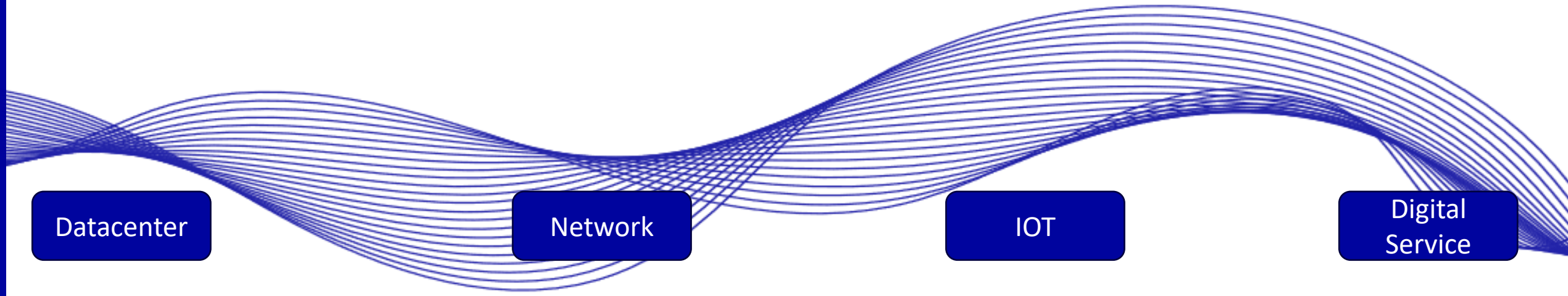
Adaptation of your data to your needs

- ❑ Support for data collection
- ❑ Verification and validation of the information collected
- ❑ Integration in your EIME space

THE PROVISIONAL ROADMAP

October 2025

2026



Datacenter

Network

IOT

Digital Service

For more information

+ 33 (0) 1 40 95 62 18

codde@bureauveritas.com

https://codde.fr

170 rue de Chatagnon
38430 Moirans

THANK YOU FOR YOUR ATTENTION !