

**CCFR** CENTRE  
DE COMPÉTENCE  
HPC.HPDA.IA

EuroCC: FRENCH National Competence Centre



Dr. Karim Azoum  
Teratec

EuroHPC Summit Week: March 22, 2022

# EUROPEAN POLE OF COMPETENCE TECHNOLOGIES & USES



SIMULATION |  
HPC | HPDA  
AI QUANTUM

## Teratec brings together

Industrial users -----

Technology companies -----

Educational and Research -----



90 Members



for the mastery, use and dissemination of HPC,  
HPDA, AI, simulation, digital technologies,  
quantum technologies...



## Teratec's European activities



Creation of the French NCC as a single reference and contact point for academia, industry and the public sector within HPC, HPDA and AI



## Contribution:



and



- Mapping of training
- Mapping of competences
- Mapping of HPC architectures
- Mapping of services offerings
- Business Development
- Marketplace
- Awareness



and



- Tailored Support to SMEs
- Network of 21 Mesocentres



**Funding:** 50% EU-H2020,  
50% French Government

**Duration:** 24 month

**Budget:** 2M€

**PM:** 115,4

**Started:** 01/09/2020

**End:** 31/08/2022



**ANR Agreement:** Document  
signed on 16/02/22

**Duration:** 28 month

**Budget:** 2M€

**PM:** 118,5

**Started:** 01/09/2020

**End:** 31/12/2022

Extension of 4months



**Mapping**  
**Availability, accessibility and applicability**

- Training: **Task 27.2**
- Competences / Skills: **Task 27.5**
- Services offering: **Task 27.6**
- HPC Architectures: **Task 27.3**
- Needs = New services to create: **Task 27.3**

**Collaboration with Industry**  
**GENCI / Mesocentres**

Support industry to identify tools/infra/technology to use / ROI

- Training (technology, advice, skills and expertise)
- set-up of a framework for interaction and tailored support to the industry



**Marketplace** Task 27.6

**Training**

- Mapping  
Technical field/ region /departement/ players
- Catalogue:  
Multicriteria search

**Skills**

- Mapping  
Technical field/ region /departement/ players
- Catalogue:  
Multicriteria search

**Services offering**

- Mapping  
Technical field / Services offering/ products / soft Infra / region /dpt/ players
- Catalogue:  
Multicriteria search

Task 27.4

**Awareness & Collaboration**  
**Teratec**

- Communication
- Seminars
- Major events / Exhibition

Task 27.7



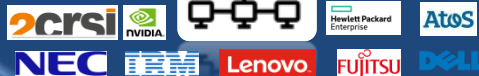
## T27.2 Training

- ✓ Analysis
  - ✓ Mapping (HPC/HPDA/AI)
  - ✓ Data Qualification Process
  - ✓ Participation in CASTIEL WP
- ↓
- ✓ 100 listed trainings (HPC/HPDA/AI)
  - ✓ Establishment of the eligibility criteria for the referencing
  - ✓ Constitution of a training committee



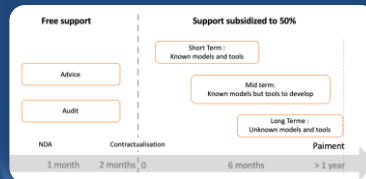
## T27.3 Architectures HPC

- ✓ Analysis of existing and emerging HPC architecture
  - ✓ Mapping/Description set including Context of use & Application
- ↓
- ✓ 42 existing & emerging HPC architecture referenced in detail
  - ✓ From 9 referenced manufacturers (2CRSI, ATOS, DELL, Fujitsu, HPE, IBM, Lenovo, NEC, NVIDIA)



## T27.4 Collaboration w. Industry

- ✓ Network of Regional mesocentres
  - ✓ Network of academic experts
  - ✓ Tailored programme to support SMEs
  - ✓ B2B meetings to involved SMEs
- ↓
- ✓ 21 mesocentres involved
  - ✓ 2,300 SMEs informed
  - ✓ 80 B2B meetings realised
  - ✓ 17 companies have started projects



**> 10 Pflop /s > 300 GPUs**

## T27.5 Competence Mapping

- ✓ Ecosystem in HPC /HPDA and AI
- >200 partners
- ✓ 290 Trainings in HPC /HPDA and AI
- >103 initial and graduate trainings
- >131 continuing trainings
- >56 MOOC
- ✓ Events in HPC /HPDA and AI
- >70 events
- ✓ job offers in HPC /HPDA and AI
- >110 job offers
- ✓ Magazine in HPC/HPDA and AI
- >17 magazines specialized



## T27.6 Facilitation of access

- ✓ Creation of the CC-FR web Site with access to :
  - + 200 partners
  - + 110 jobs
  - + 286 training
  - + 70 events
  - +17 Magazines
- ✓ Creation of the French Marketplace

Industry & Academia, Technoproviders and Service providers reference their services

Referencing General Rules

French Competence Center:  
The Marketplace

Multi-criteria search

Training/ Competences/ Services / Products / Expertises / computing resources/ mapping

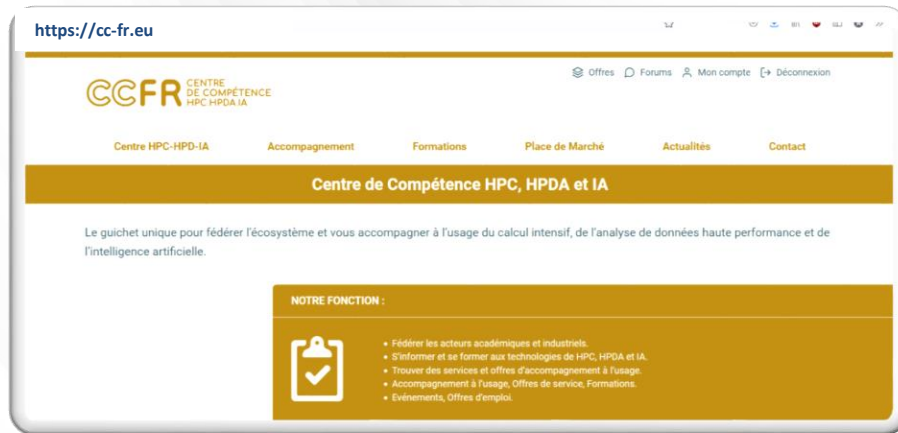
End Users

## T27.7 Awareness Creation Comm.

- ✓ Name, logo ,Website
- ✓ Linkedin, Twitter
- ✓ 7 newsletters
- ✓ 3 articles, 4 videos
- ✓ 8 Participation in trade fairs /events
- ✓ Organization of a roundtable of techno providers in a major event



## Directly accessible on the website with multicriteria search



- 200 partners
- 290 training
  - ✓ 103 initial and graduate training
  - ✓ 131 continuing training
  - ✓ 56 MOOC
- 70 Events
- 110 Job offers
- 17 Magazines







twitter.com/CCFR90272929

← **CC-FR**  
16 Tweets



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📍 Paris [cc-fr.eu](#) 📅 Joined February 2022

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**Infos**

Le Centre de Compétence CC-FR, dédié aux technologies de HPC, HPDA et IA, rassemble la communauté d'offres de technologies et d'utilisateurs. CC-FR est un guichet unique pour fédérer cet écosystème transverse et vous accompagner à l'usage du calcul intensif, de l'analyse de...  
[voir plus](#)

## Directly accessible on the website CC-FR

- Creation of a profile
- Creation of company profile
  - ✓ Referencing services (Hardware, software, service delivery, HPC resources, trainings, Events, job offers)

- Currently under test
- Open end of April 2022

Industry & Academia, Technoproviders and Service providers reference their services

*Referencing General Rules*

**French Competence Center:  
The Marketplace**

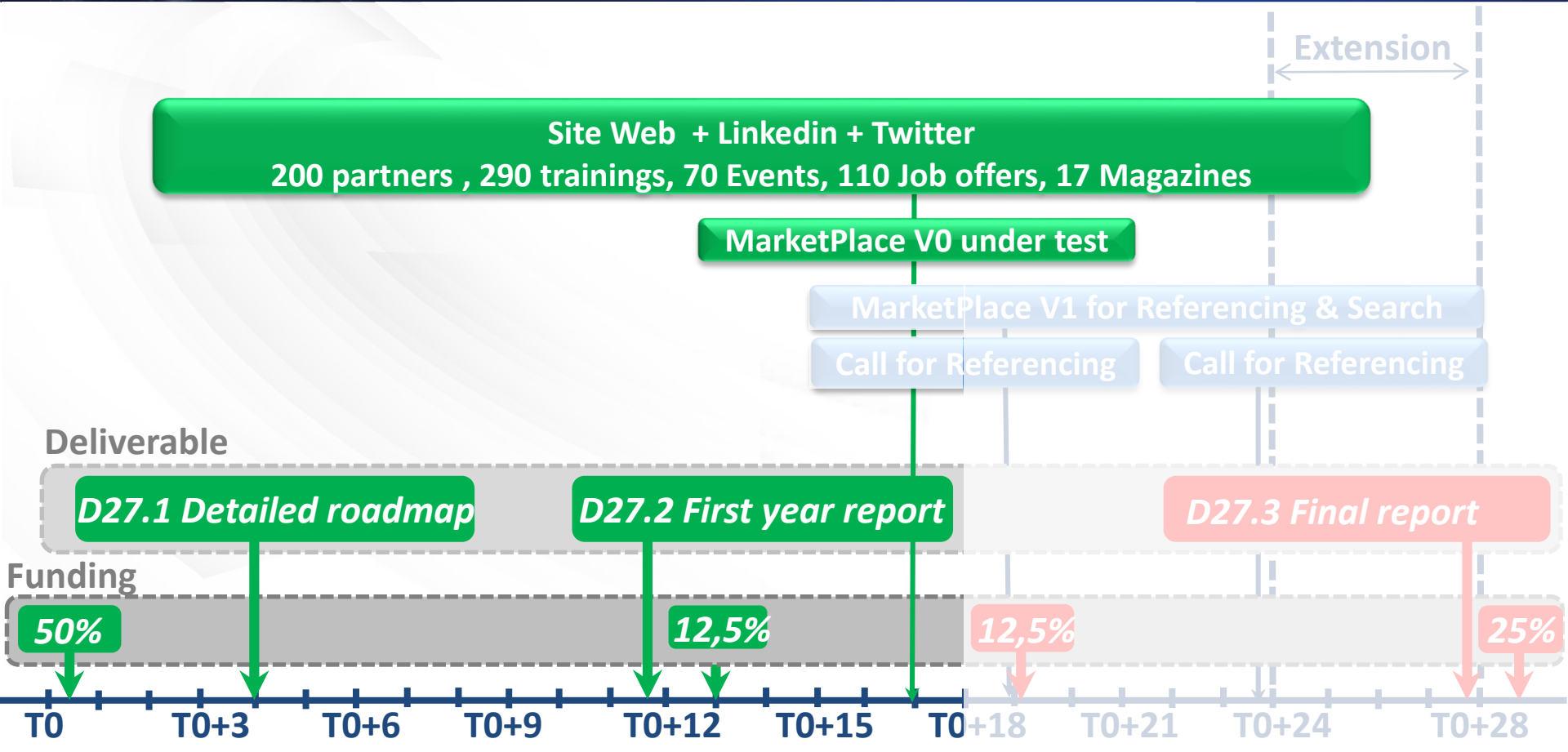
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**Multi-criteria search**

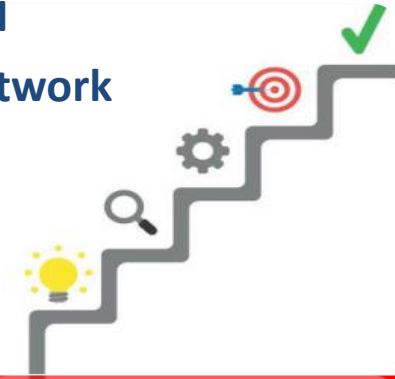
Training/ Competences/ Services / Products / Expertises /  
computing resources/ mapping

**End Users**

# Global Planning of the roadmap



- ✓ **Opening the Marketplace end of April**
  - Training, Competences, Expertise, Services, Products (software and hardware), computing resources
- ✓ **Dissemination of the Marketplace: Dedicated workshop and webinars**
  - For techno providers to reference offers,
  - For end users to access the marketplace to find a local or national solution
- ✓ **Develop new Trainings for beginners on the use of HPC, HPD and AI**
- ✓ **Support SMEs on the use of HPC/HPDA/AI with the mesocentre network**
- ✓ **Extend dissemination and awareness creation activities**
- ✓ **Exchange and interact with other NCCs**
- ✓ **Preparation of phase 2 of EuroCC**

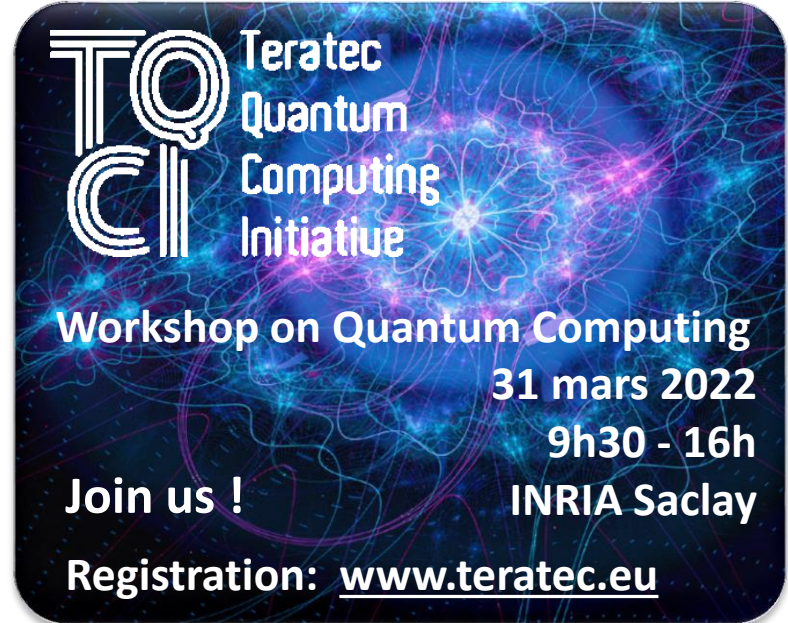




## Workshop on Quantum Computing

31 mars 2022  
9h30 - 16h  
INRIA Saclay

- ❖ Latest developments in Quantum Computing
- ❖ Major regional, national and European initiatives



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THE INTERNATIONAL MEETING  
CONFERENCES | WORKSHOPS | EXHIBITION

**Forum Teratec 2022**  
*Unlock the future!*

SIMULATION |  
HPC | HPDA  
AI | QUANTUM

**Join us !**

**14-15 JUNE** | ECOLE POLYTECHNIQUE

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