



H-HW&SW

Heterogeneous Hardware & Software

Alliance

**Simplify & Optimize
Heterogeneity**

pursuing a common objective with the Heterogeneity Alliance:
influence and develop the heterogeneous market

Today's workshop

- Keynote: The heterogeneity challenge, Antonio Peña (BSC)
- The heterogeneity Alliance, Clara Pezuela (ATOS)
- The Alliance approach, Karim Djemame (University of Leeds)
- Contributions from EU projects involved

we live in an

heterogeneous world



Heterogeneity

challenging but... also hard!

it provides lots of specific benefits

it's growing due to a number of devices

it's expected to explode even more

heterogeneous hardware ecosystem

highly heterogeneous



Heterogeneity

better together



**TANGO
Toolbox**

**Your Cool
Tools &
Technologies**

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Tools &
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there is an opportunity

let's do something



Heterogeneity

better together



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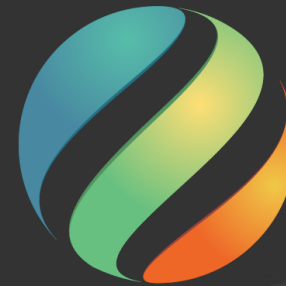
influence the market
& close the gap

TANGO pursues creating an **Alliance**



we are creating an **alliance**
of organizations interested in
technologies & tools related to
heterogeneous hardware:

development
deployment
operations
and **optimization**
of energy & performance & more



H-HW&SW

Heterogeneous Hardware & Software

Alliance

Industry

Academia

**Research
Projects**

**Open Source
Initiatives**

**Interested
Parties**

**Standardization
Bodies**

influence & develop the market

Alliance main goal?



we want to... influence & develop

found an association with a common purpose of interaction and collaboration with other interested entities involved in any technological field related with the full life-cycle of heterogeneity.

support the creation of a common and extendable set of technologies & tools around development for heterogeneous hardware, shared as open-source, which can be improved for mass adoption utilizing technologies

in which all members collaborate taking charge of **promoting**, supporting, and enhancing the assets shared by the Alliance.

and **benefit** from the synergies, opportunities, visibility and relevance that the community around can generate for their own objectives and closing the gap between research and industry

collaborate to

improve HHW



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reference architecture



catalogue of tools &
technologies

collaborate to

improve HHW



abstract & control

Simplify & Optimize Heterogeneity

Current Activities

Defining the Common Architecture & Catalogue of Tools

Establishing Working Groups (periodic meetings & sessions)

Governance Structure & Membership Agreement

Leverage Visibility at HiPEAC, Launch Events, Website

participate to benefit and help

improve HHW



Current members

9 research projects

5 organizations



participate to benefit and help

improve HHW



abstract & control

Simplify & Optimize
Heterogeneity

better together



we want to grow and
become even more relevant

contact us



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**For more information about the alliance
contact us:**

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