

**Q1** What is your organisation's/project's name?

ESCAPE

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**Q2** Your organisation's/project's website

hpc-escape.eu

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**Q3** Are you?

**A research organisation**

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**Q4** Your name

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**Q5** Your email address

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**Q6** Your contact phone number

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**Q7** Please summarise who you are and what you do

I am the deputy director of research at ECMWF - a European organisation supported by 34 member and cooperating states. ECMWF is the world leading medium range weather forecasting centre. I am leading the Scalability Programme at ECMWF that aims at preparing the weather prediction system for the exascale era through reforming mathematics and algorithms, programming models, big data handling and workflow management. The ESCAPE project coordinates a European consortium in support of novel algorithms suitable for heterogeneous architectures enhancing energy efficient simulation capability. I further co-coordinate the ESiWACE centre of excellence for weather and climate prediction. ECMWF is also involved in the NextGenIO and the EuroEXA projects, both focusing on new technologies exploiting deeper memory hierarchies and entirely new system-level architectures.

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**Q8** In what way would like to contribute to an EsD project? **An an application provider**

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**Q9** What would be your contribution to an EsD project?

ECMWF and its partners aim at providing ready-to-use benchmarks for the EsD that represent workloads typical for operational weather and climate prediction. Given the enormous socio-economic value of weather and climate prediction, and the obvious exascale dimension of our community's computing and data handling workload, EsD performance should be assessed based on our applications. Our current portfolio of FET and EINFRA projects already contains elements of preparing such EsD benchmarks, and we will emphasize this aspect in future projects.

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**Q10** What partners are you looking for?

Industrial partners helping to facilitate adaptation of our codes onto novel technologies in the true co-design spirit. An important aspect is the support through programming models that enable portability and maintainability of large codes, allowing to exploit new technologies at the same time.

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**Q11** Please include links to any additional material.

[www.hpc-escape.eu](http://www.hpc-escape.eu)

[www.esiwace.eu](http://www.esiwace.eu)

[www.nextgenio.eu](http://www.nextgenio.eu)

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**Q12** Other comments/ideas

**Respondent skipped this question**

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