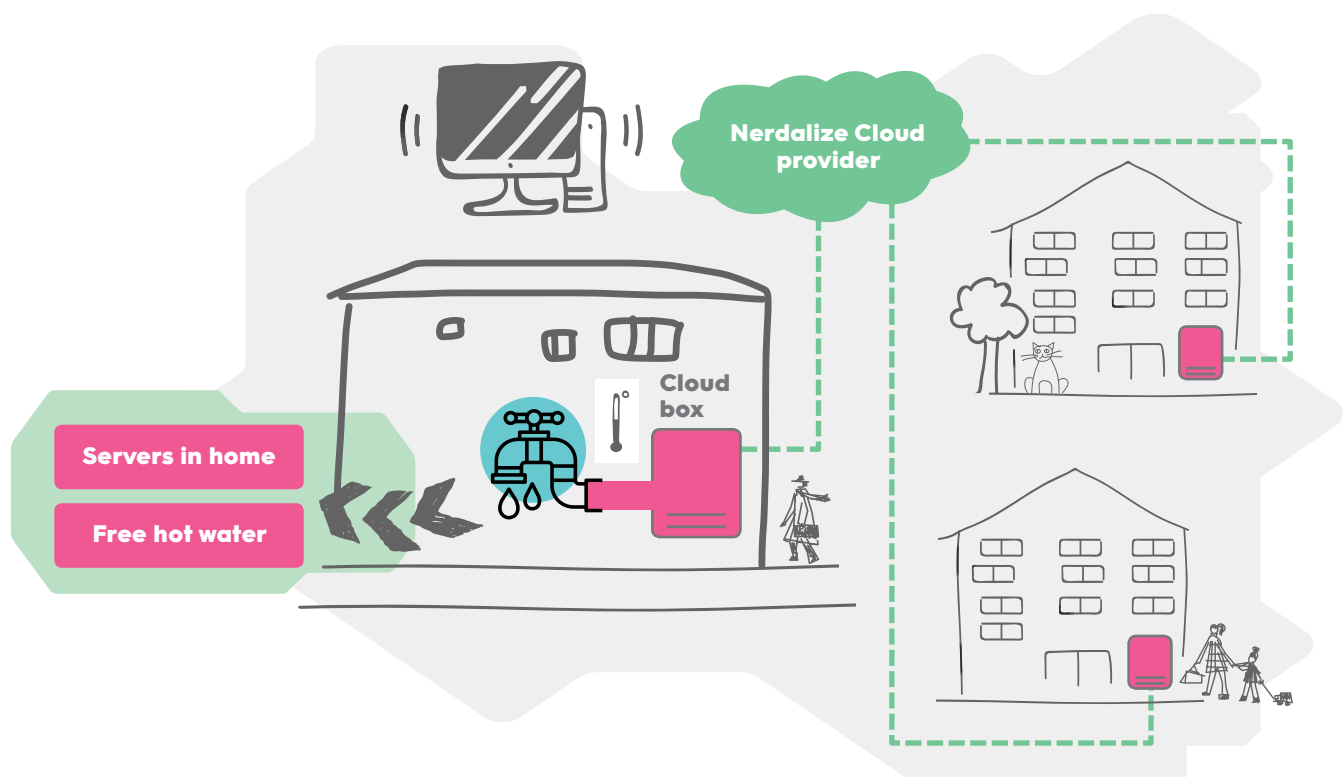


High performance servers to heat homes (Nerdalize)

Rotterdam

Energy management and ICT



Data centres are wasteful and expensive. Almost half of the energy they consume is wasted on overheads while all the heat generated by the servers is a waste product. And more than half of the cost goes to the building and infrastructure. Nerdalize solves these problems by taking servers out of the data centre and into homes. This creates a triple win where computing power becomes much more affordable, homes are provided with hot tap water for free and CO₂ emissions are drastically reduced.

Main partners involved:



FACTSHEET R12

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How does it work?

Thanks to this radically different approach in building cloud, Nerdalize enjoys a huge cost advantage compared with traditional cloud providers. By housing the servers in a CloudBox and placing them in homes, Nerdalize eliminates the cost of building a traditional data centre - resulting in a cloud that is 40% more affordable than, for example, Google Cloud.

Each Nerdalize CloudBox provides a household with hot water, resulting in household savings of around €200 per year, while reducing CO2 emissions by 2,000 kg per home per year. At the scale of 100 houses - or 16,000 vCPU - the Nerdalize solution results in 200 tonnes of CO2 reduction.



Estimated impacts

It is already operational on a small scale, and will be made suitable for RUGGEDISED when private houses are built.

Replication potential

Replication is possible in all cities, but the details of the system depend very strongly on the specifications of each city and their respective governance objectives.

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Find more factsheets on
www.ruggedised.eu

