

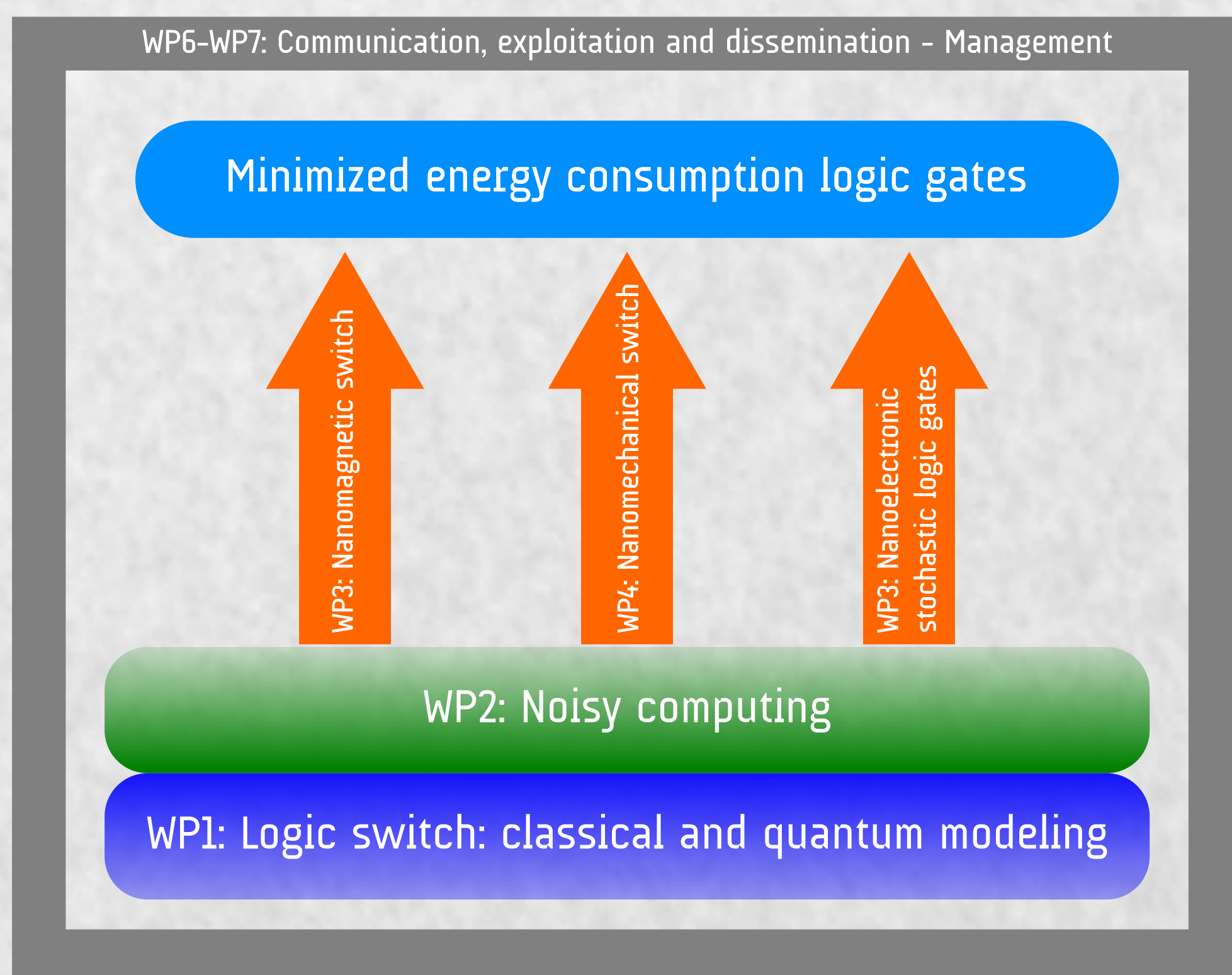
LANDAUER

Operating ICT basic switches below the Landauer limit

WHAT

The **scientific objective** of this project is to test the fundamental limits in energy dissipation during the operation of physical switches representing the basic elements of logic gates. We address the physical limits arising from a generic switch mechanism that is common to any digital device, with specific reference to the fundamental limit arising from the decrease of information in the computation procedure, also known as Landauer limit. The **technological objective** of this project is to introduce new conceptual devices that, through novel computing paradigms with radically improved efficiency, are capable of trading the minimum amount of energy dissipated with the computational precision.

HOW



WHO

LANDAUER consortium is composed by five world-leading experts in nanoscale energy management, coordinated by NiPS Laboratory at University of Perugia.

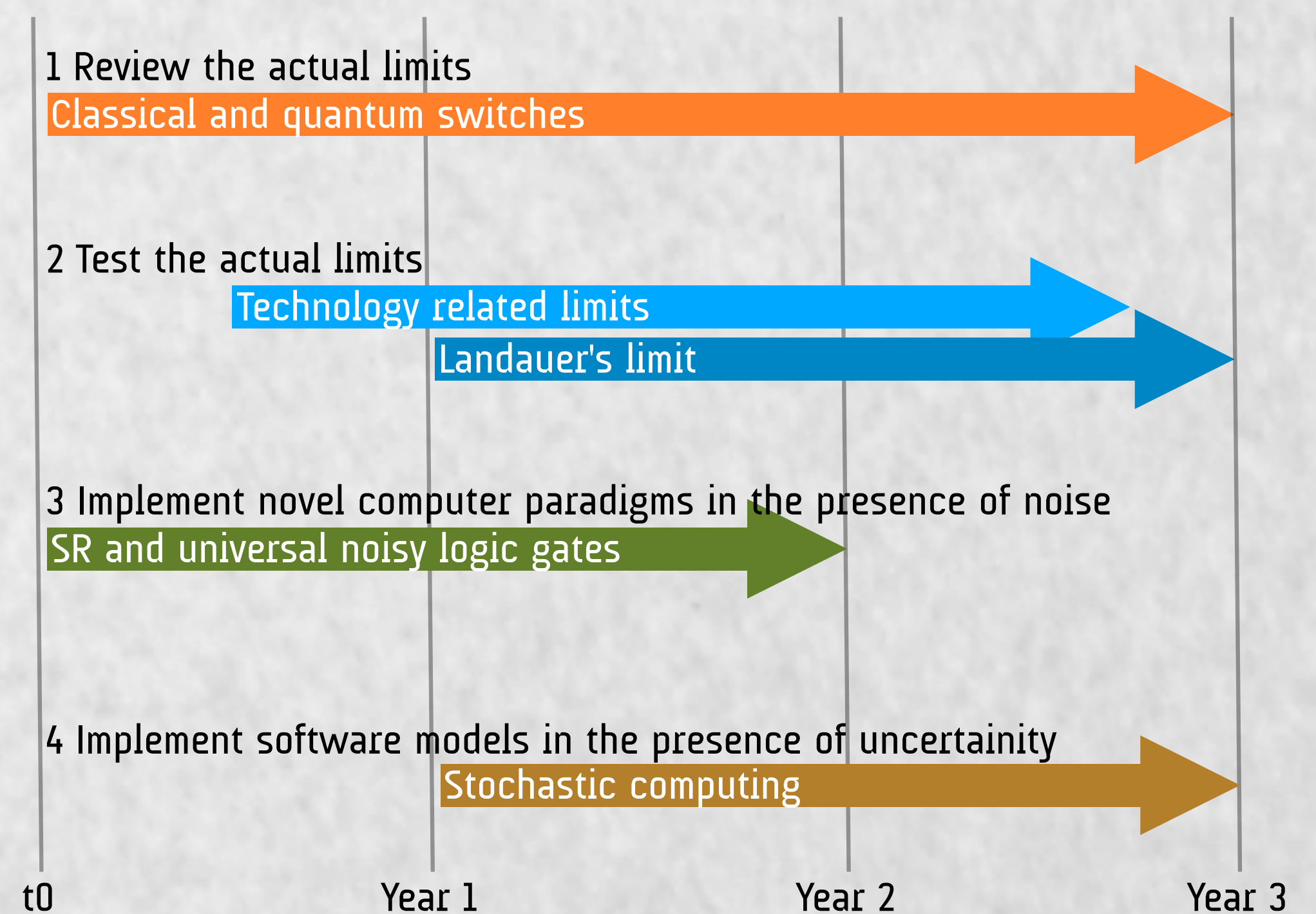
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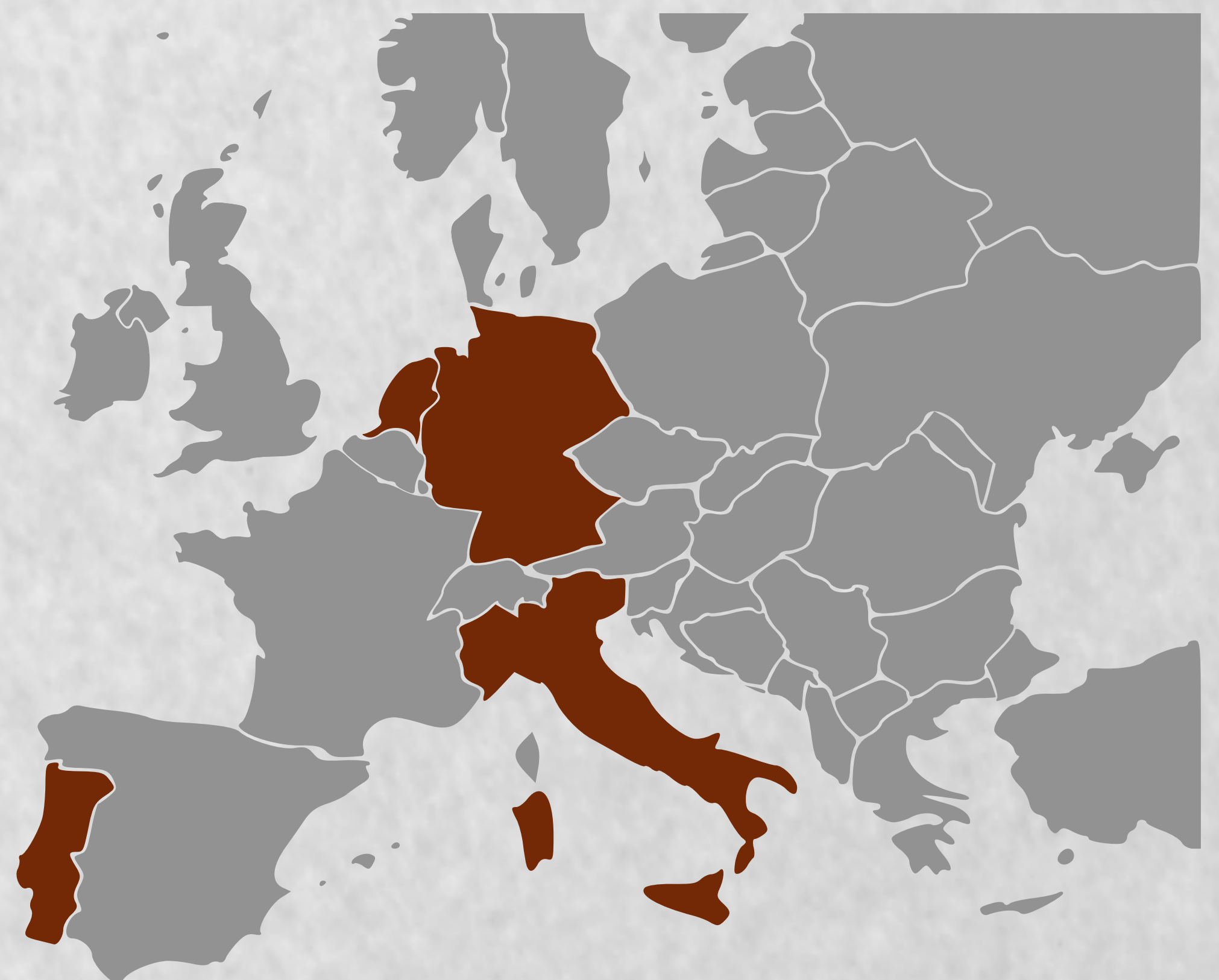
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Technische Universiteit Delft (TU Delft)
Stevinweg 1, 2628 CN Delft, Netherlands

WHEN



WHERE



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