



# VIDA

value-added innovation  
in food chains

## First Results

*Supporting innovation through collaboration*

*Sabine Höfel & Norbert Reichl  
Food-Processing Initiative e.V.  
Milano brokerage event  
12.09.2019*



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under grant agreement 777795-5



## Content

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**01.**

Facts  
& Figures

**02.**

Innovation  
Support  
Voucher

**03.**

Validation  
Voucher

**04.**

Demonstratio  
n Voucher



## Content

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**01.**

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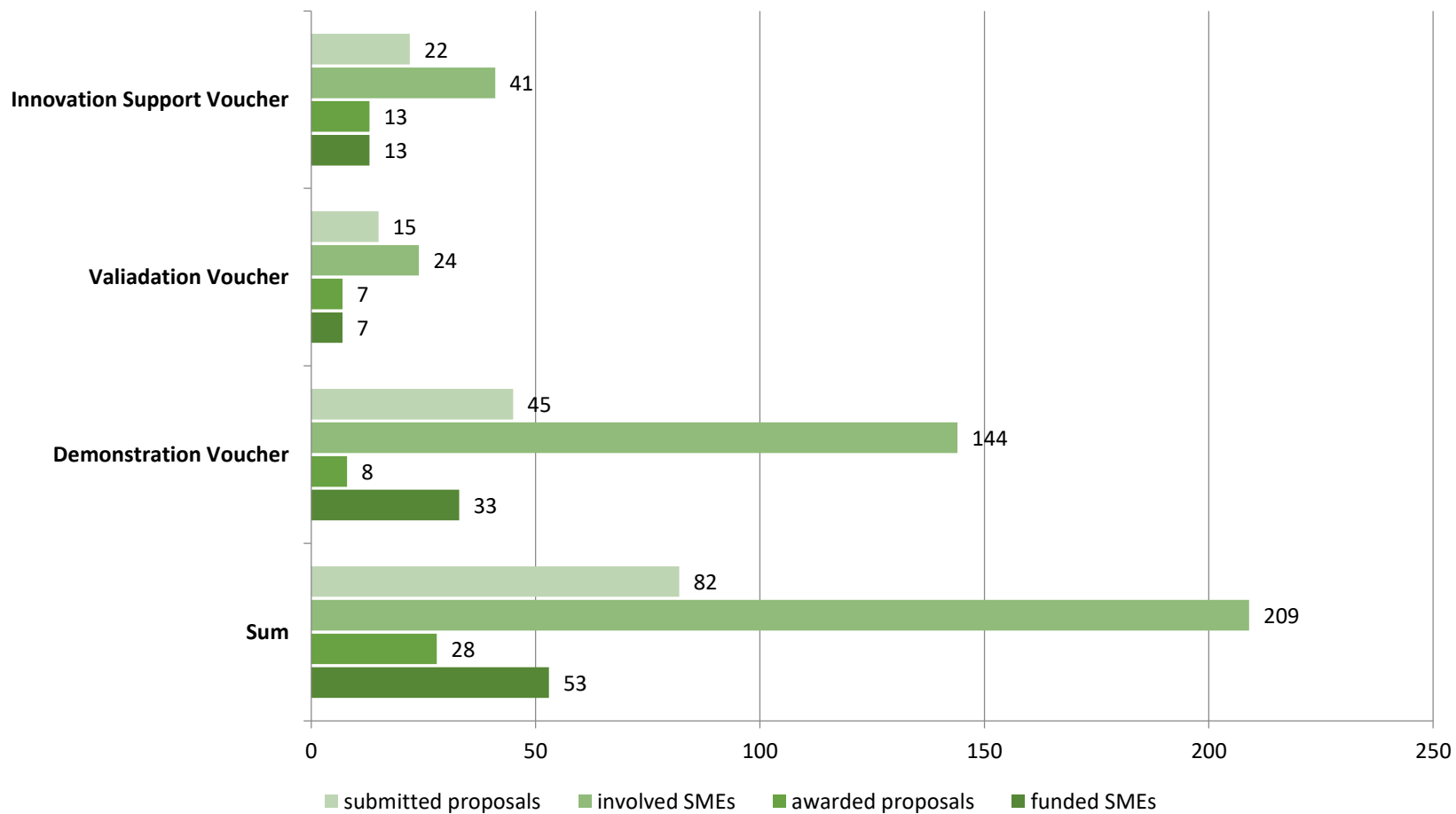
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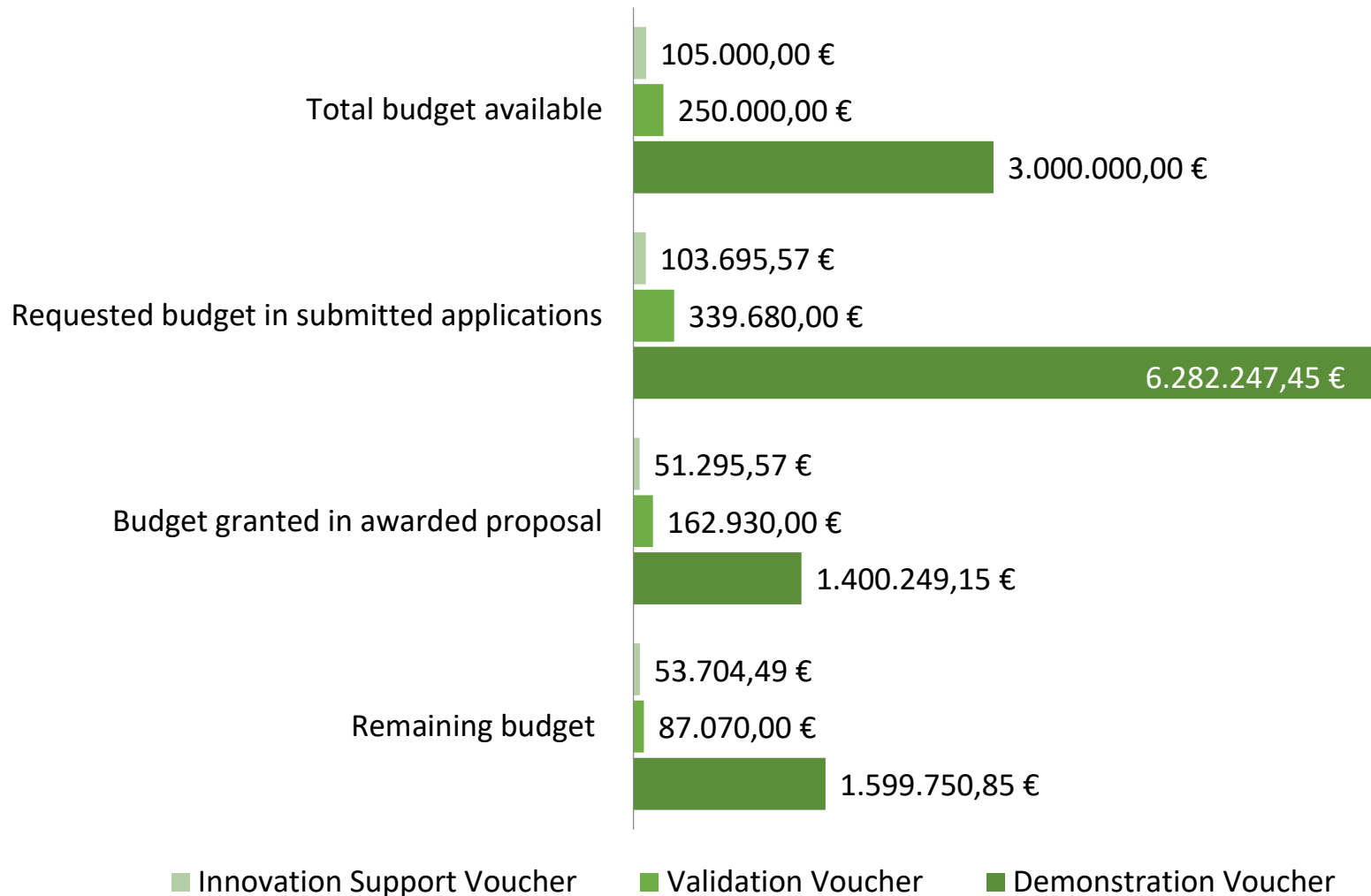
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## Facts & Figures - overview



## Facts & Figures





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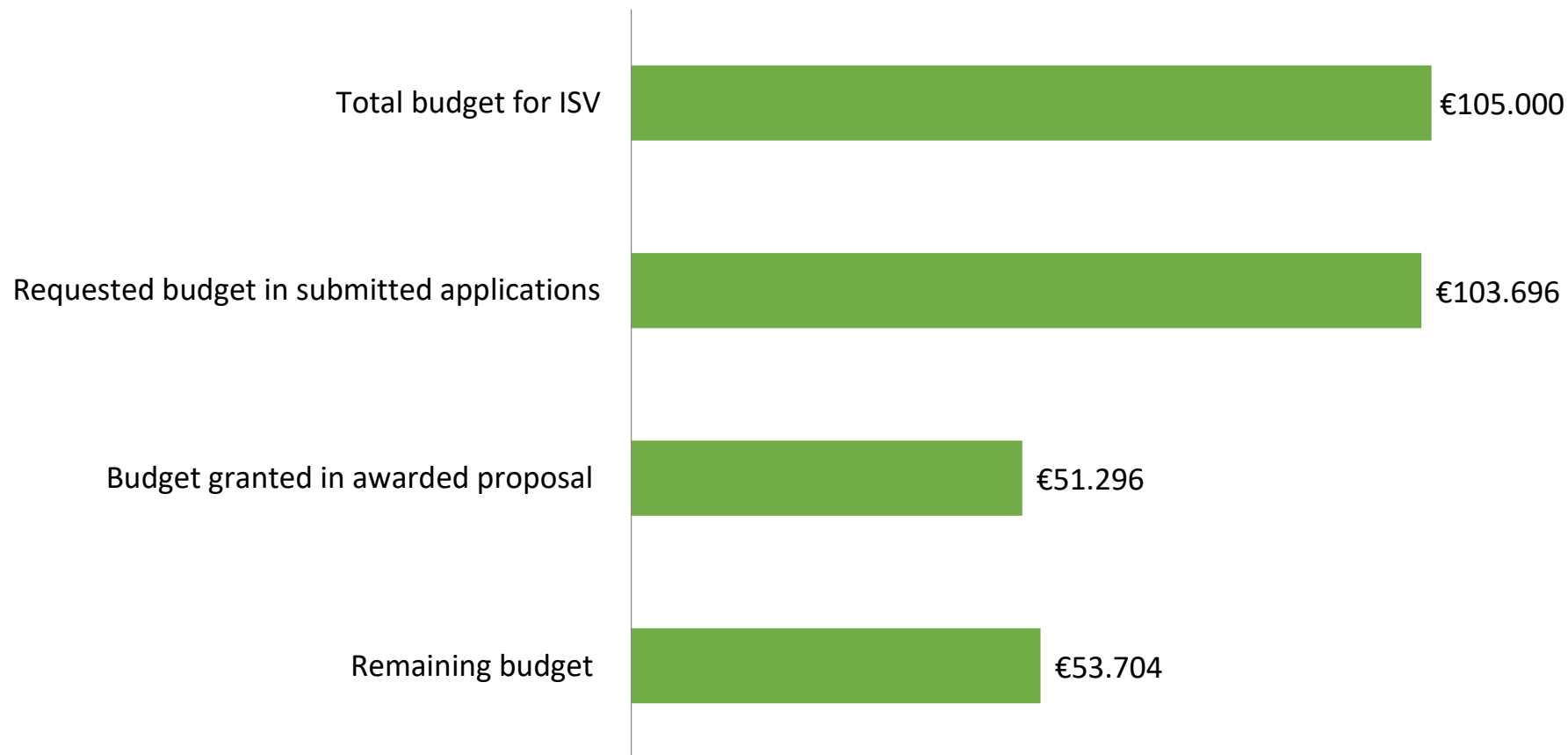
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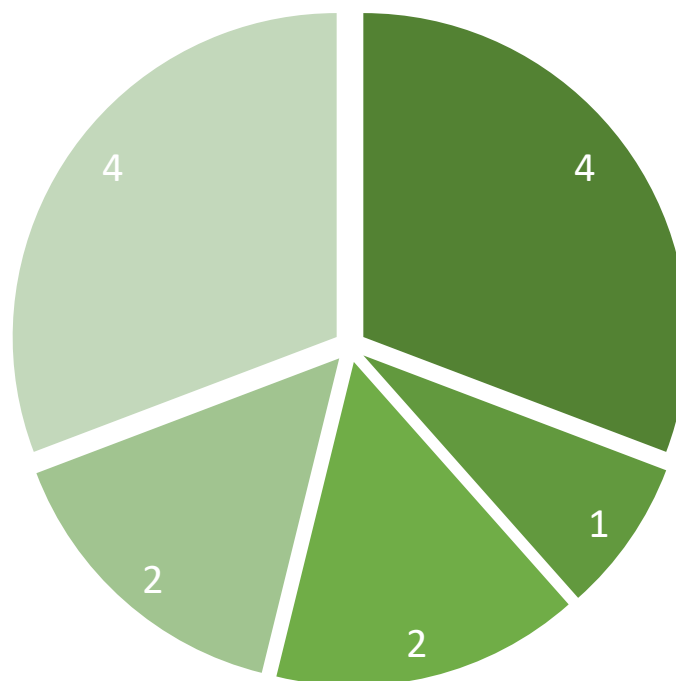
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## Innovation Support Voucher (ISV) – Budget overview



## Innovation Support Voucher (ISV) – awarded projects per country



■ Czech Republic ■ Denmark ■ Italy ■ Netherlands ■ Spain



## Innovation Support Voucher (ISV) - Topic and scope of the granted proposals

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- Cloud-based maintenance APP (smart-water TPM)
- Control of invasive species in an irrigation community
- Automatically identify and count larvae of bivalve mollusks in water samples
- Water reduction elaborating candied fruit and comfitures
- Implementing remote water monitoring
- Separating of micro and nano particles in the drying process
- Recyclable nanofibrous system for organic substances sorption in food processing plants
- Filters with integrated nanofibers
- Energy recovery and agricultural waste disposal through rice husk gasification
- Aquaponic system without water consumption
- Olive mill wastewater treatment with advanced oxidation



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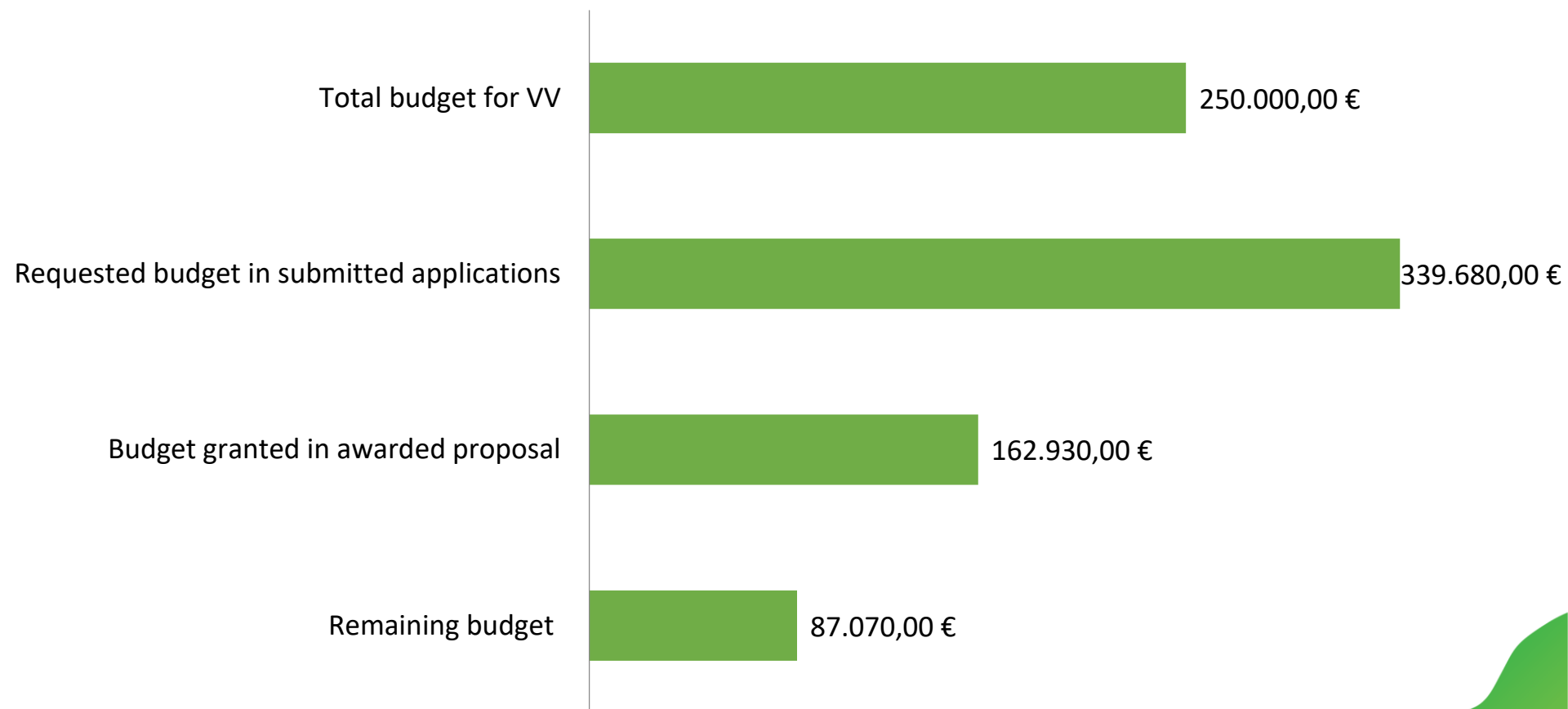
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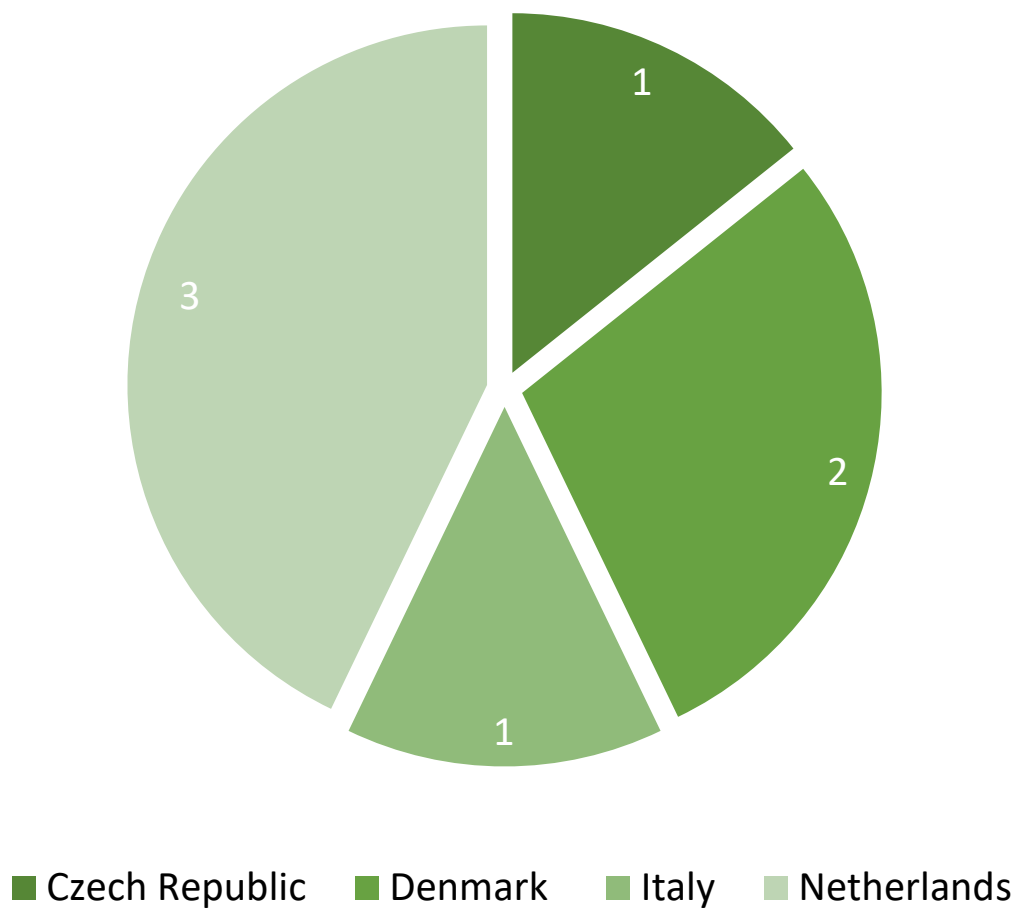
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## Validation Voucher (VV) - Budget overview



## Validation Voucher (VV) – awarded projects per country



## Validation Voucher (VV) - Topics and scope of the granted proposals

- The next-generation plant-based meat analogues
- Efficient Drying System as an innovation enabler of high-value biorefineries
- Optimization of water treatment systems using IoT
- Microbiological treatment for fish farming effluents and hydroponic horticulture
- Wrapping films used in the food industry
- Protein source from fungal biomass
- From waste to high-quality fertilizers



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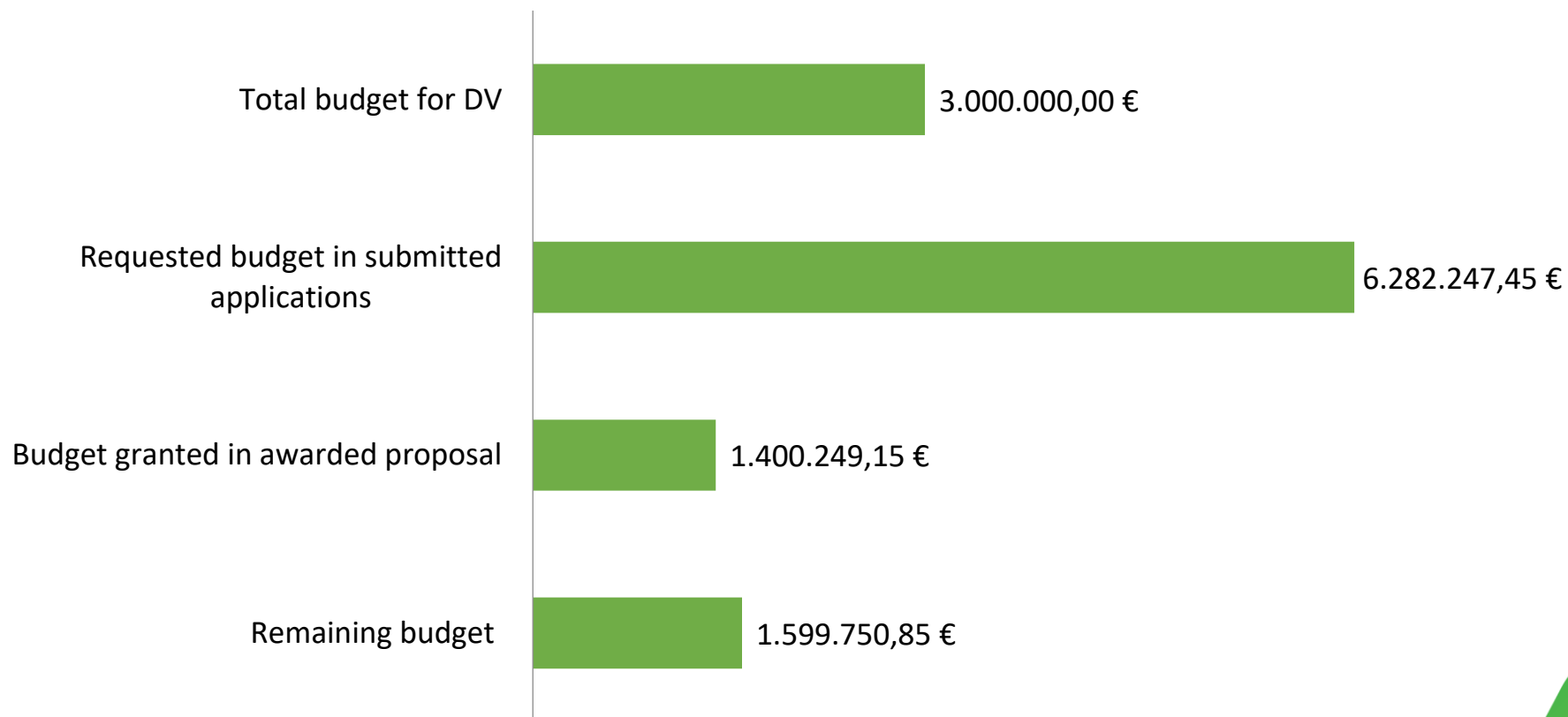
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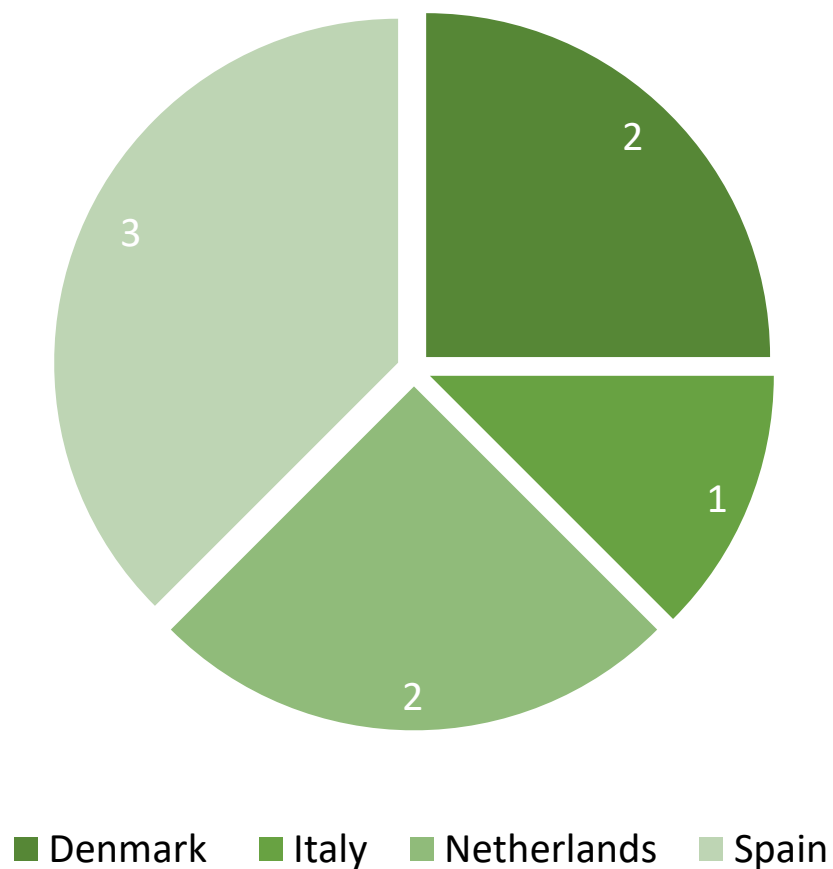
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Demonstratio  
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## Demonstration Voucher (DV) - Budget overview



## Demonstration Voucher (DV) – awarded projects per country





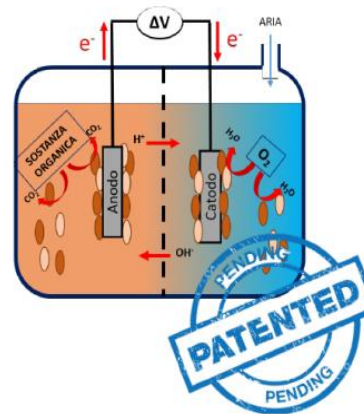
## Demonstration Voucher (DV) - Topics and scope of the granted proposals

- Zero-emission of water and nutrients for greenhouse food production
- Nanofiltration applied to rejected water recovery in brewery industry
- Cloud irrigation platform based on remote wireless data acquisition
- Pulsed electric field: an innovative solution for sustainable red winemaking
- Saving water by removal of off-flavor in farmed fish
- BioPod – hydroponic greenhouse solution
- Recycling Nutrients for future food
- Water reuse in the food sector: demonstrating cloth filtration as a viable and economic pretreatment process

## Demonstration Voucher (DV) - Topics and scope of the granted proposals



Bioelectrochemical Fuel Cell



**Food sector:** Alternative food production

**Challenge:** An increasing population has to live off a limited supply of arable land and increasingly limited resources. New and alternative food diets, practices and sources need to be explored.

**Project:** Recycling Nutrients for future food

## Demonstration Voucher (DV) - Topics and scope of the granted proposals

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**Food sector:** Greenhouses

**Challenge:** Energy-water efficiency and circular economy

**Project:** Zero-emission of water and nutrients for greenhouse food production (DV)

## Demonstration Voucher (DV) - Topics and scope of the granted proposals



**Food sector:** Fish farming

**Challenge:** Decontamination, closing loops

**Project:** Saving water by removal of off-flavor in farmed fish (DV)

## Demonstration Voucher (DV) - Topics and scope of the granted proposals



**Food sector:** Sustainable Farming

**Challenge:** Manure management; water recycling; decontamination; energy efficiency; clogging pipes/species; diffuse pollution

**Project:** Cloud irrigation platform based on remote wireless data acquisition

## Demonstration Voucher (DV) - Topics and scope of the granted proposals



**Food sector:** Breweries & Wineries

**Challenge:** Closing loops; innovative water sources; water treatments for industrial process; improvement of cleaning

**Project:** Nanofiltration applied to rejected water recovery in brewery industry



Thanks for listening



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**wateralliance**



**nanoprogress**  
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Looking forward to receiving your applications!