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中欧城市森林应对方案

Demand for Forest Ecosystem Services

An analysis of societal perceptions towards forests in Europe and China

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该项目获得欧洲H2020**研究与创新**计划的资助（拨款协议号码：821242）。部分中国合作伙伴也为此提供了资金。

Study aim

To systematically and representatively analyse societal perceptions and demands towards forests, parks and trees in Europe and China, including:

- Perceptions of ecosystem services & disservices
- Perceptions of the aesthetics
- Forest and park visits during the Covid-19 pandemic in spring 2020



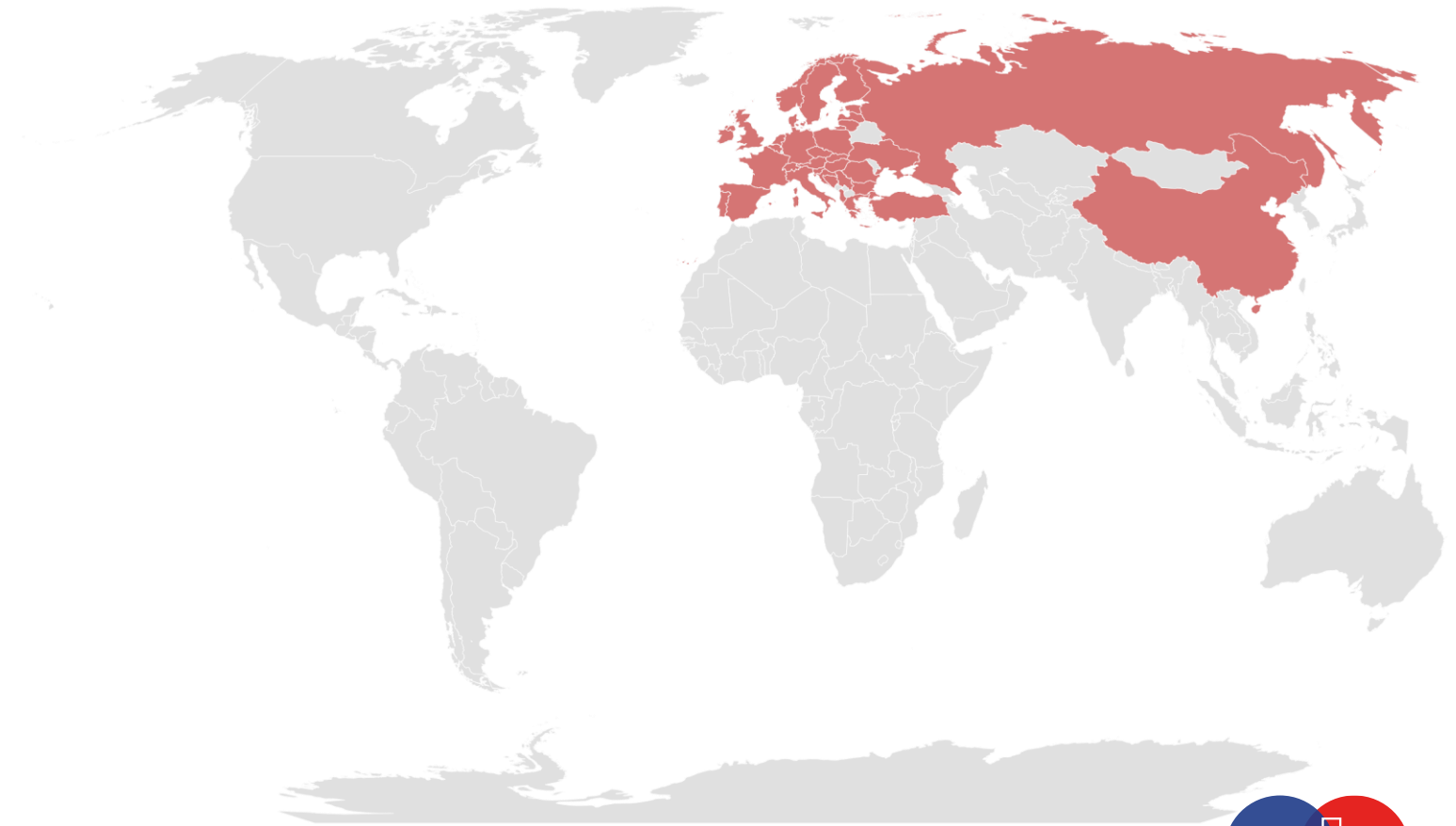
Data collection

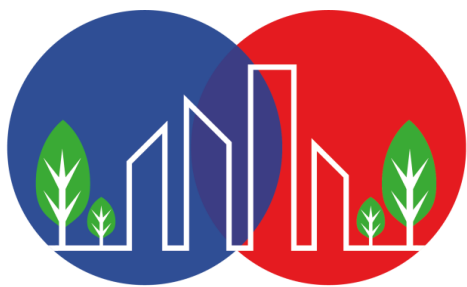
China Mainland:

- 7,379 responses in 18 provinces (appr. 409 responses per province)

Europe:

- 13,319 responses in 33 countries (appr. 403 responses per country)





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Results



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Result 1: Societal perceptions towards forest ecosystem services (FES) in Europe

How important are the following benefits of this forest to you?

(In reference to a specific forest located on a map)

Scale: 0=Not important, 100=Very much important

n=3379

	Median	IQR		Median	IQR
Habitat for plants and animals	96	21	Water and soil protection	80	42
Aesthetics	96	22	Spiritual value	79	44
Air quality	95	22	Non-timber products	70	48
Human health	93	25	Education	68	48
Carbon storage	90	31	Employment	50	53
Noise reduction	85	34	Fuelwood	43	60
Natural hazard protection	82	40	Wood for timber	34	60
Temperature reduction	81	41	Hunting	20	55
Recreation	80	43			

Result 2: Societal perceptions towards provisioning FES in Europe – Comparison by country

Wood for timber 7 73



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Fuelwood 10 68



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Hunting 2,5 52



Non-timber products 35,5 87



Result 3: Societal perceptions towards regulating FES in Europe – Comparison by country

Water and soil protection 66 98



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Air quality 76 100



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Carbon storage 71 98



Temperature reduction 57,5 99



Result 4: Societal perceptions towards cultural FES in Europe – Comparison by country

Spiritual value
67 96



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Education
45 86



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Recreation
63,5 97



Aesthetics
85 100



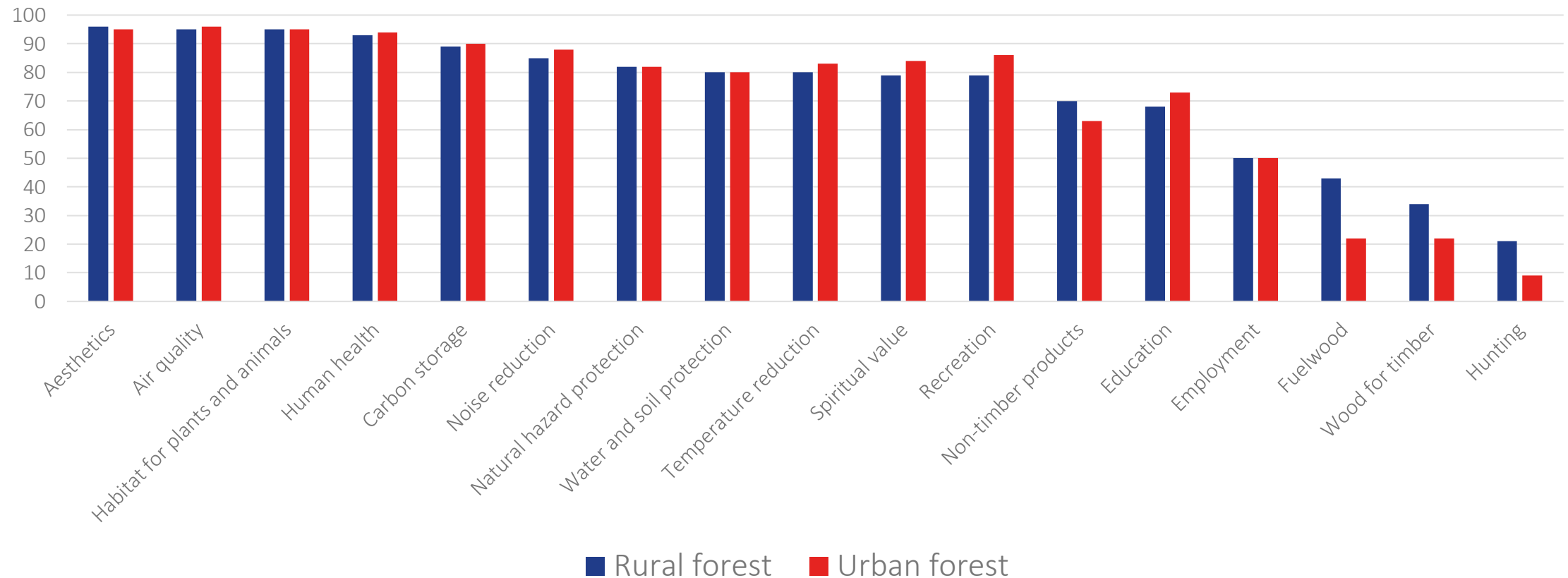
Result 5: Societal perceptions towards forests in Europe – Comparison rural vs. urban forests

How important are the following benefits of this forest to you?

(In reference to a specific forest located on a map)

Scale: 0=Not important, 100=Very much important

Rural: n= 3631/Urban: n=3362



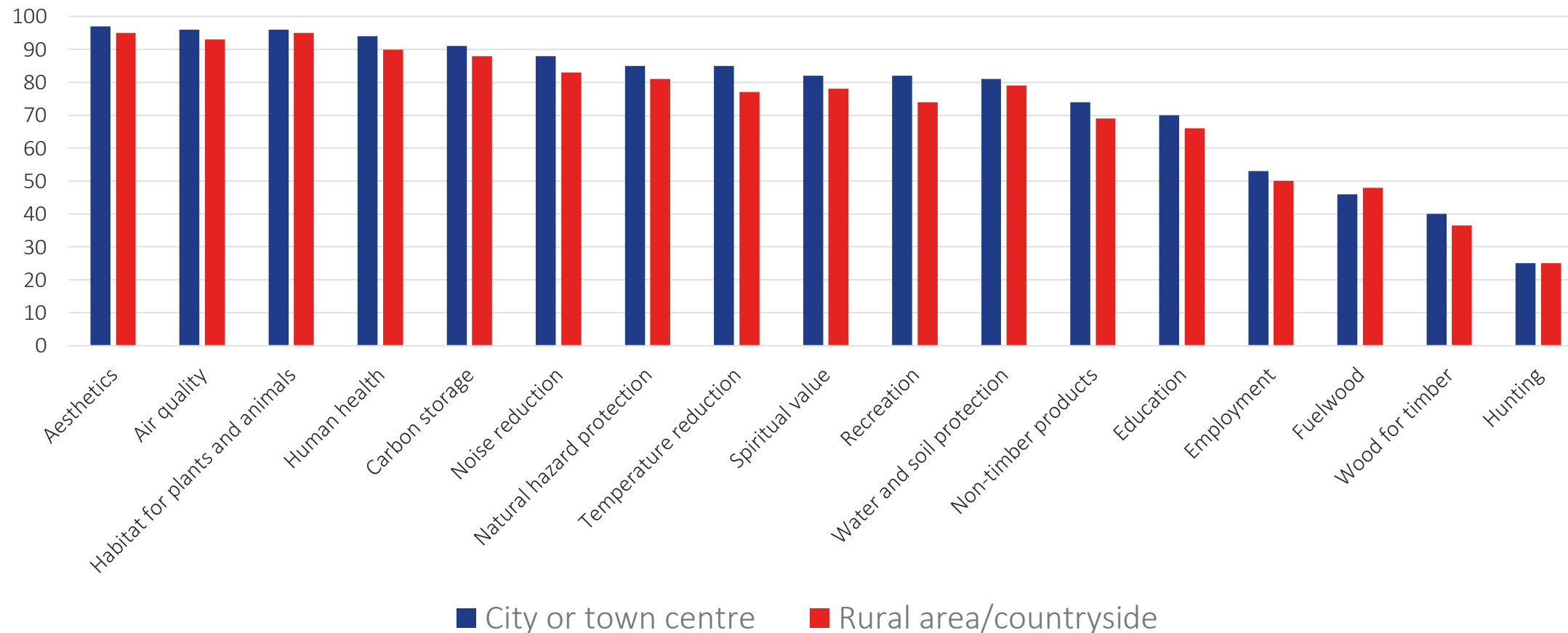
Results 6: Societal perceptions towards forests in Europe – Comparison by place of residence

How important are the following benefits of this forest to you?

(In reference to a specific forest located on a map)

Scale: 0=Not important, 100=Very much important;

n= 3620



Aesthetics – Public preferences

Which of the following landscapes do you find most attractive?

Image 1 – most attractive
(n=3635 / 13317) – 27,30 %



Image 2 (n=3370) – 25,31%



Image 3 (n=1454) – 10,92 %



Image 4 (n=1492) – 11,20 %



Image 5 (n=3366) – 25,28 %



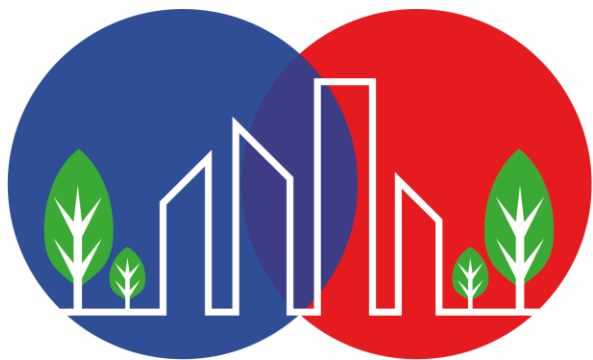
Summary

- demand regulating and cultural FES > provisioning FES
- variety in the demand across cultural and regulating FES – many are rated as important
- Demand towards FES regionally diverse within Europe
- Differences between type of forest, gender and place of residence but these appear to be not very strong & mainly concern provisioning FES

→ More detailed analysis will follow!



Thank you



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Ecosystem services

- Importance of ecosystem services rated using a slider on the scale from 1-100

Forests...	Slider (1-100)
...Provide wood for timber and furniture	
...Provide fuelwood	
...Provide products other than wood (e.g. mushrooms, berries, nuts, medicinal plants)	
...Provide opportunities to hunt game	
...Protect water quality and protect soils from erosion	
...Improve air quality	
...Store carbon and reduce climate change	
...Provide living space for plants and animal species	
...Provide cultural, emotional and spiritual value	
...Provide opportunities for education (e.g. for forest kindergartens, schools)	
...Provide recreation and sports opportunities	
...Provide benefits to human health and well-being	
...Lessen the negative impact of natural hazards (e.g. storms, floods)	
...Provide jobs and economic activity	
...Are beautiful	
...Reduce noise	
...Reduce temperature	