



Indoor air quality and thermal comfort among elderly – an overview

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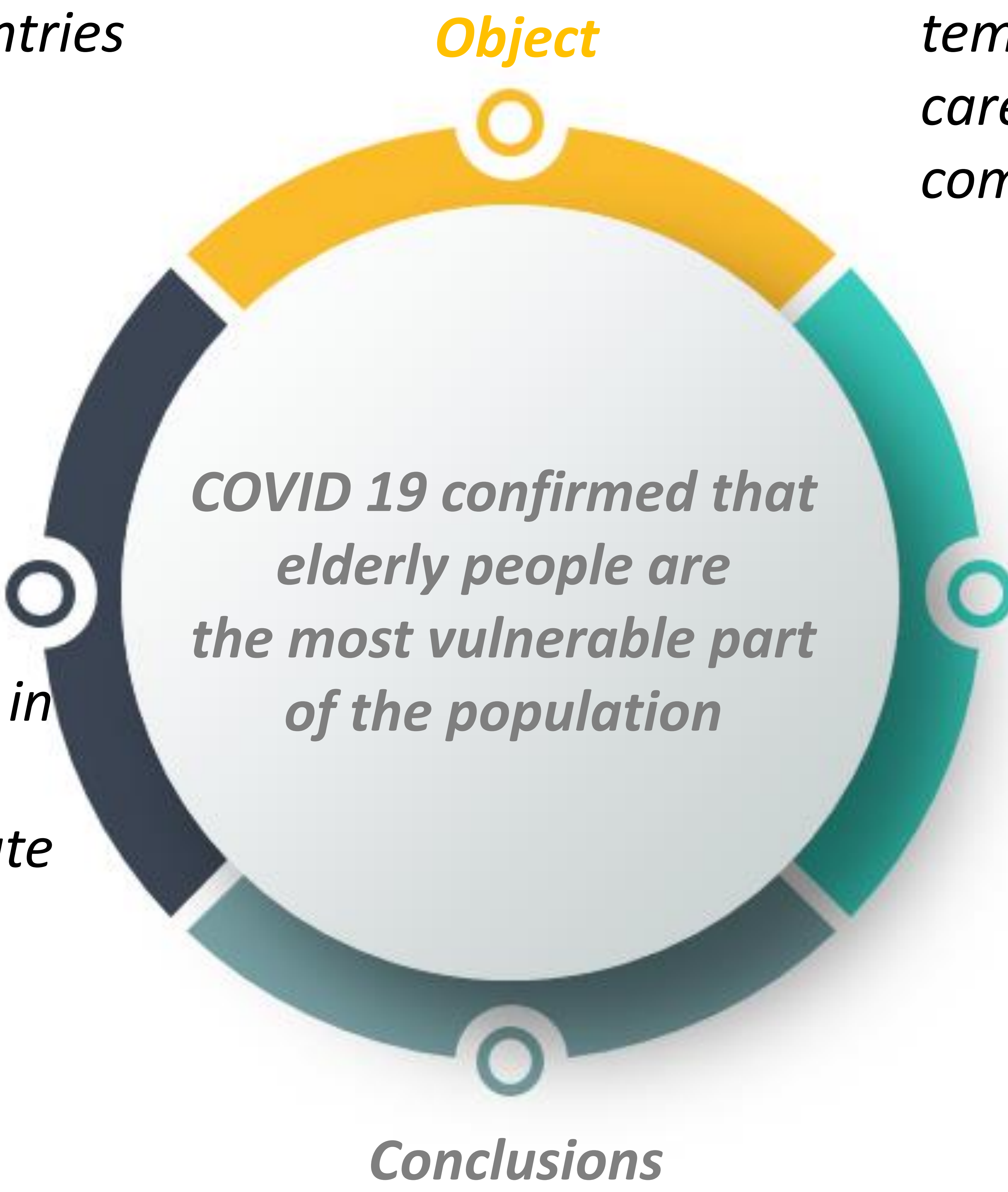
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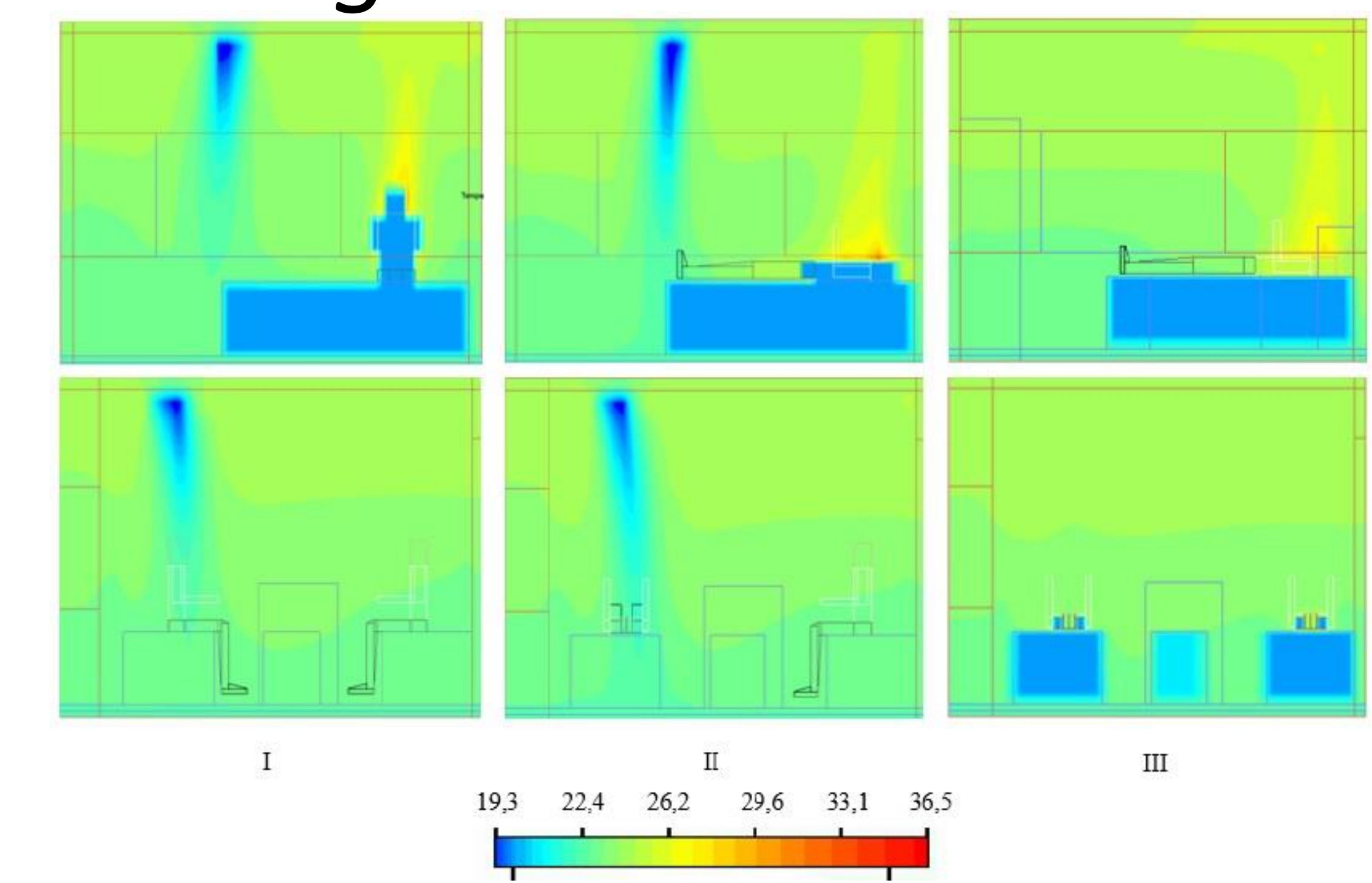
- Kauno Panemune social care center
- Elderly care centers in EU and other countries



- Population in EU and other countries is getting older.
- Elderly people experience indoor climate differently compared with non-elderly.



- CFD simulation revealed that the best distribution of temperature in the room (Kauno Panemune social care center) was in the case with floor heating combined with mechanical mixing ventilation.



IE conditions in Elderly care centers	T, °C		RH, %	
	Summer	Winter	Summer	Winter
Lithuania	24.4	21.0	54	32
Portugal	23.2	19.5	53	49
Korea	28.6	23.2	60	25

- Elderly people experience lower tolerance for uncomfortable situations compared with non-elderly.
- It is important to guarantee good indoor air quality and thermal comfort for elderly people as most of their time they spend indoors.