Miskolc



Satu-Mare Baia Mare

Suceava Botoșan



Converting ordinary hospital facilities into infection facilities in a cost-effective manner

Bucharest 14.12.2023 Ploies **Risto Salin** Mikko Salin Pitest PhD, Director CEO **Inspector Sec Ltd Inspector Sec Ltd** Serbia Finland Finland

Inspector Sec Ltd

- Excellence in indoor air and infection risk management
- Focused on producing solutions to keep old buildings running with low costs
- Extreme level products for Chemical, Biological, Radiological and Nuclear (CBRN) accidents
- Role in E3-project: to provide devices and solutions
- Some references:
 - Indoor air and infection risk management of Oulu University Hospital, 1600 M€ construction project
 - Infection risk management of Finnish Parliament House during the COVID-19 pandemic



ISEC Romanian hospitals



 Ideal buildings to improve air quality, reduce infection risks and manage CBRN risks with reasonable price





Decentralized and movable ventilation and air purification system

Old hospital

- Ordinary facilities
- Ordinary treatment rooms
- Ventilation via windows



Upgraded hospital

- Infection facilities
- Infection treatment rooms
- Ventilation units and air purifiers in rooms

Benefits:

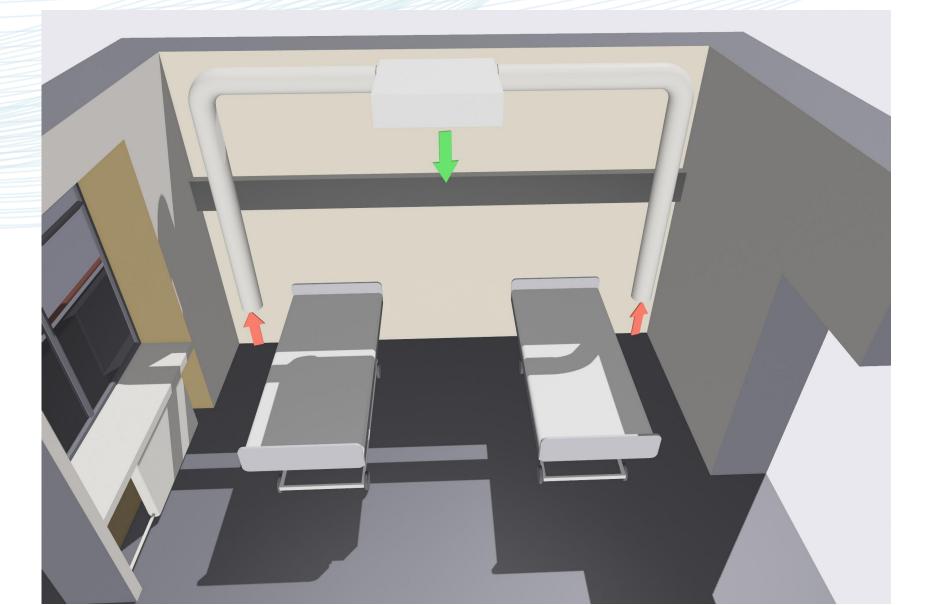
- Inexpensive investment compared to new hospital
- Significant infection risk reduction
- Significant CBRN-risk reduction

Doesn't replace the need for new hospitals, but supports the use of old buildings









Watch video: https://www.youtube.com/watch?v=mklojOwCqcs



Indoor air and infection risk management in nursing homes

ISEC

Air exchange per hour (ACH) capacities

		Volume of the room m ³	ACH 1/h	Roof purifier ACH 1/h (total)	Kuulas ACH 1/h (total)	CBRN purifier ACH 1/h (total)	CBRN w/o activated carbon ACH 1/h (total)
	Matei Bals Covid room	42	1	23,1 (24,1)	7,6 (8,6)	15,5 (16,5)	23,4 (24,4)
	Matei Bals ICU room	61	1	16,1 (17,1)	5,3 (6,3)	10,8 (11,8)	16,3 (17,3)
	Finnish treatment room	95	3,5	10,4 (13,9)	3,4 (6,9)	6,9 (10,4)	10,5 (14,0)



Example: from old hospital to infection hospital

	Beds	Infection rooms needed, %	Infection rooms pcs	Investment compared to a new hospital
Matei Bals	690	30	207	0,6 %

10 M€ budget: infection room for 2500 people

= 12 hospitals converted to infection hospitals

Contact information:

ISEC

Mikko Salin Inspector Sec Ltd Finland Ph.D., Director <u>Mikko.salin@isec.fi</u>

+358458662929

Risto Salin Inspector Sec Ltd Finland CEO <u>risto.salin@isec.fi</u> +358408332141