



Workshop 8: ***Implementing an adaptive ventilation (IAQ) strategy in residential care facilities***

Welcome

Moderator:

- Hilde Breesch

Speakers:

- Hilde Breesch
- Pauline Hautekiet

Airborne Coronavirus: What You Should Do Now

How to protect yourself from a virus that may be floating indoors? Better **ventilation**, for starters. And keep wearing those masks.

By APOORVA MANDAVILLI July 6, 2020

The New York Times



White House releases ventilation guidelines meant to address indoor Covid spread

A statement from the White House says funds from the \$1.9 trillion American Rescue Plan can help upgrade air quality in schools and other public buildings.



More companies look to ventilation systems to control the spread of Covid-19 and other viruses

By Liz Szabo, Kaiser Health News

Calls for post-Covid 'revolution' in building air quality



14 May 2021 David Shukman



Residential care facilities: 28% of respondents from technical services do not know what type of ventilation system is in place

Childcare facilities: 58% do not know if there is mechanical ventilation system

	Childcare facilities	Residential care facilities
< 900 ppm CO ₂	1/17	5/15
< 1200 ppm CO ₂	3/17	10/15

- ▶ Window vents were often closed
- ▶ Mechanical ventilations do not always work perfectly



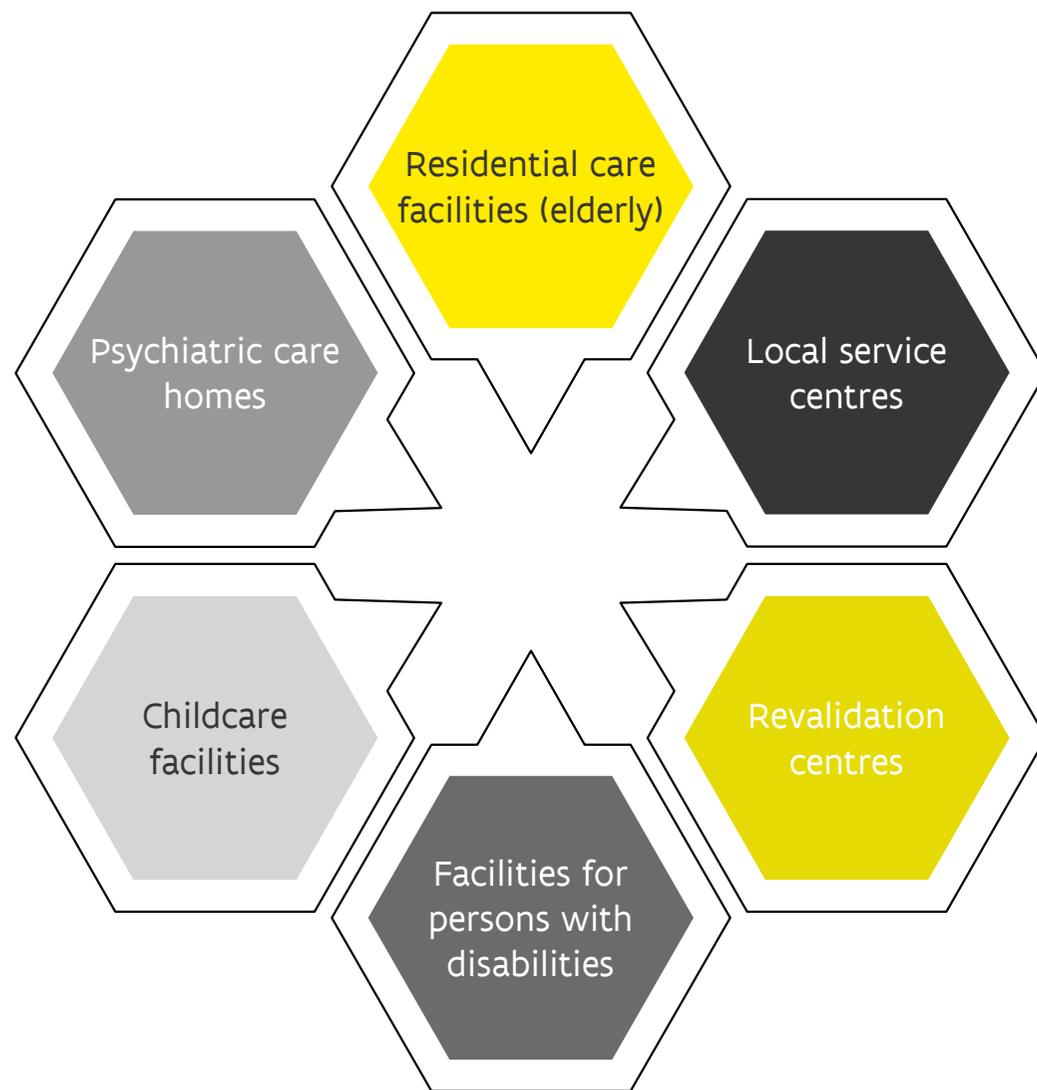


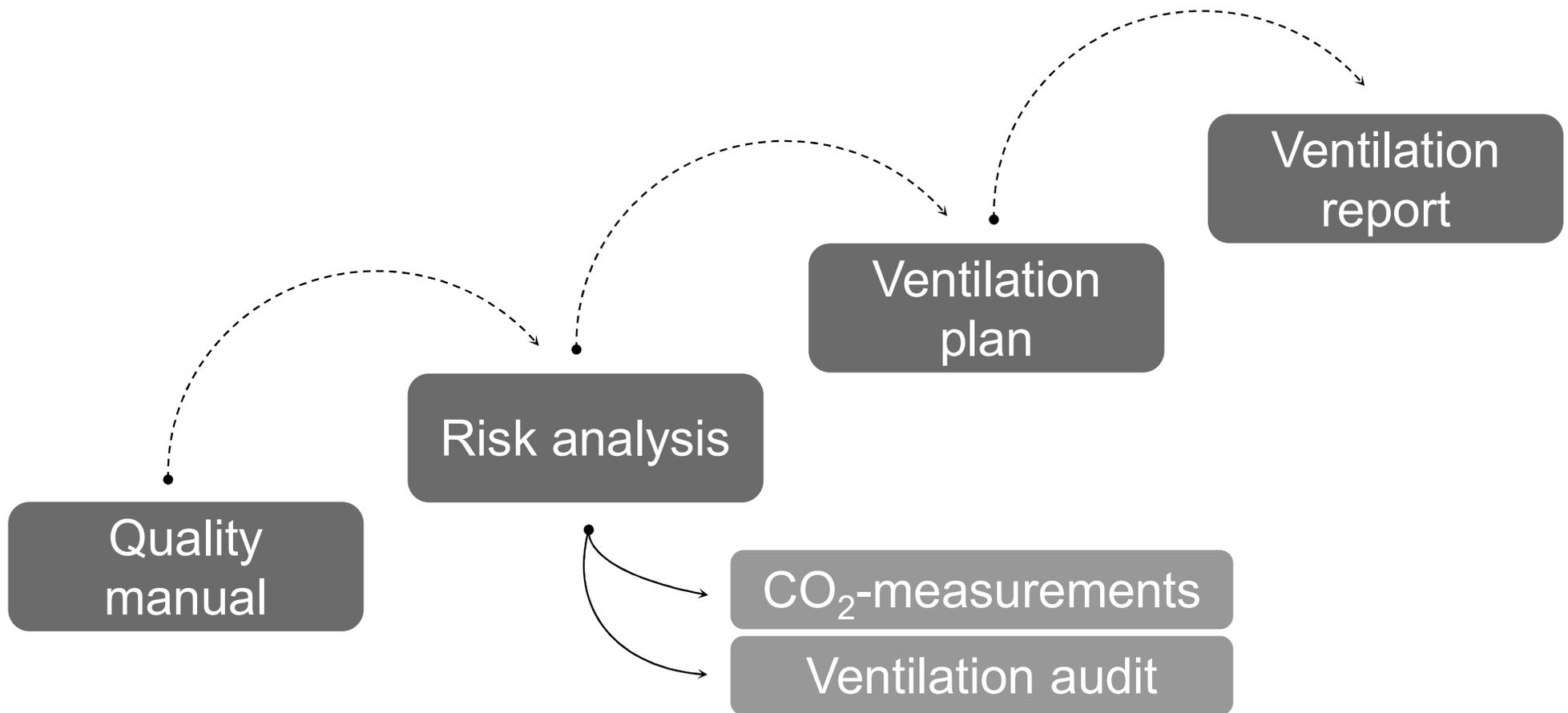
Flanders
State of the Art

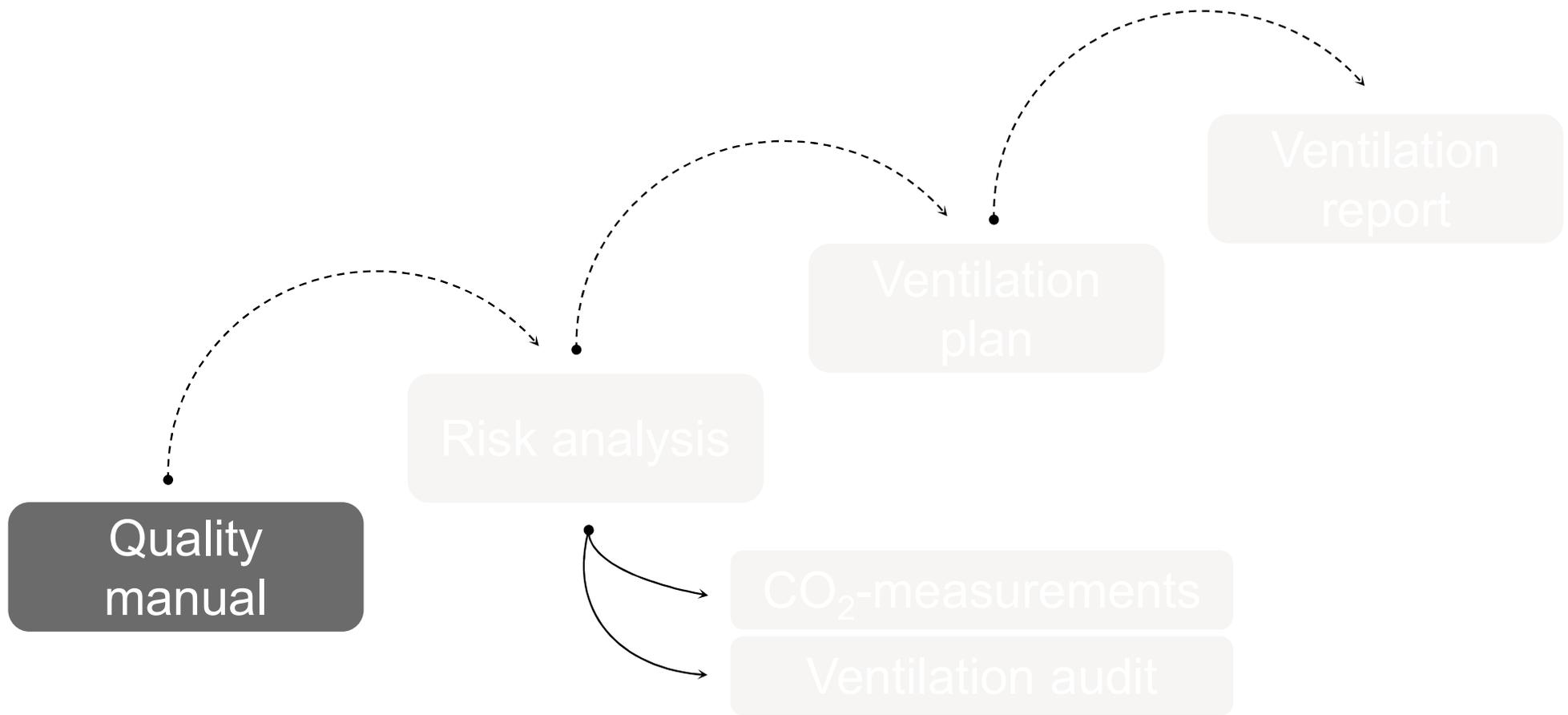
An adaptive ventilation strategy in residential care facilities in Flanders

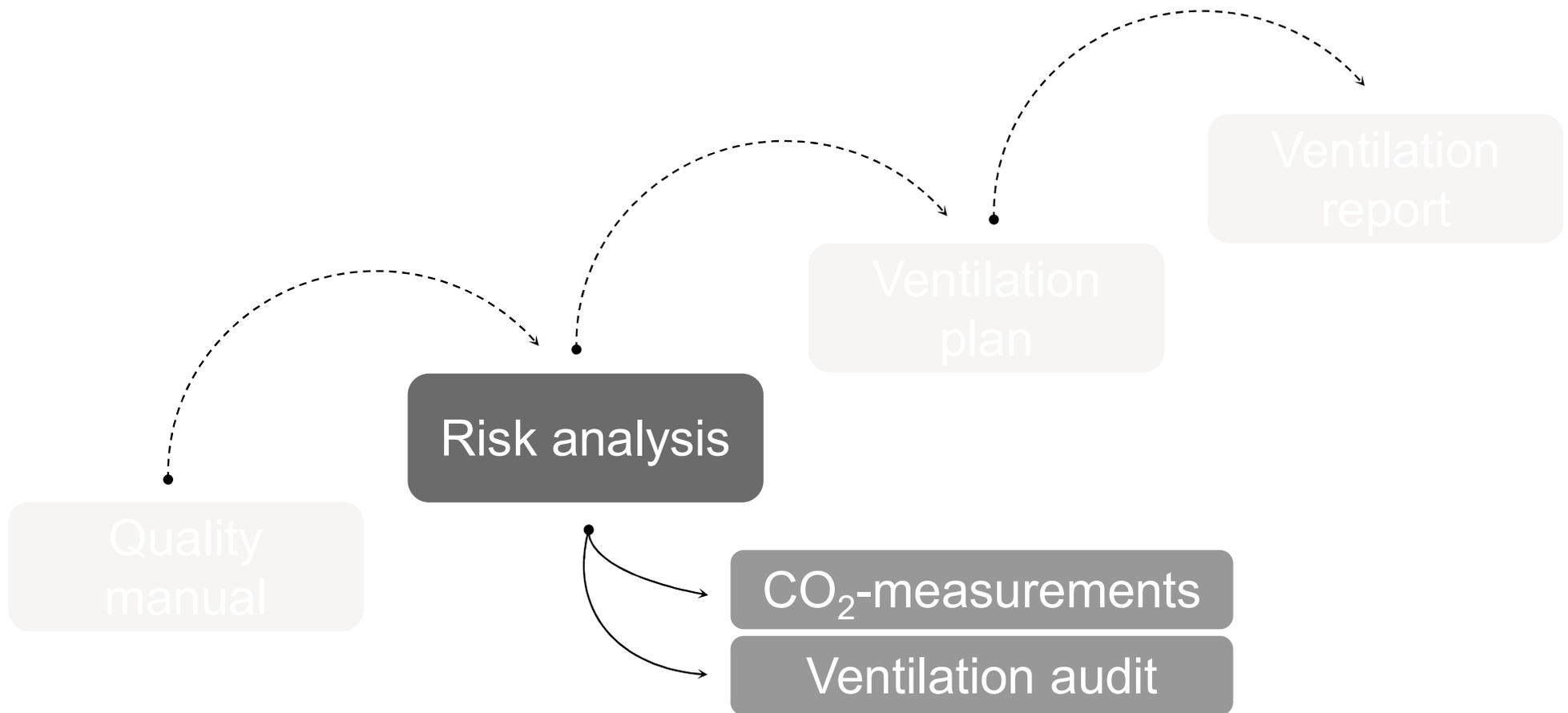
Pauline Hautekiet, Sara Benoy, Ann Beusen

Quality framework for ventilation in care facilities





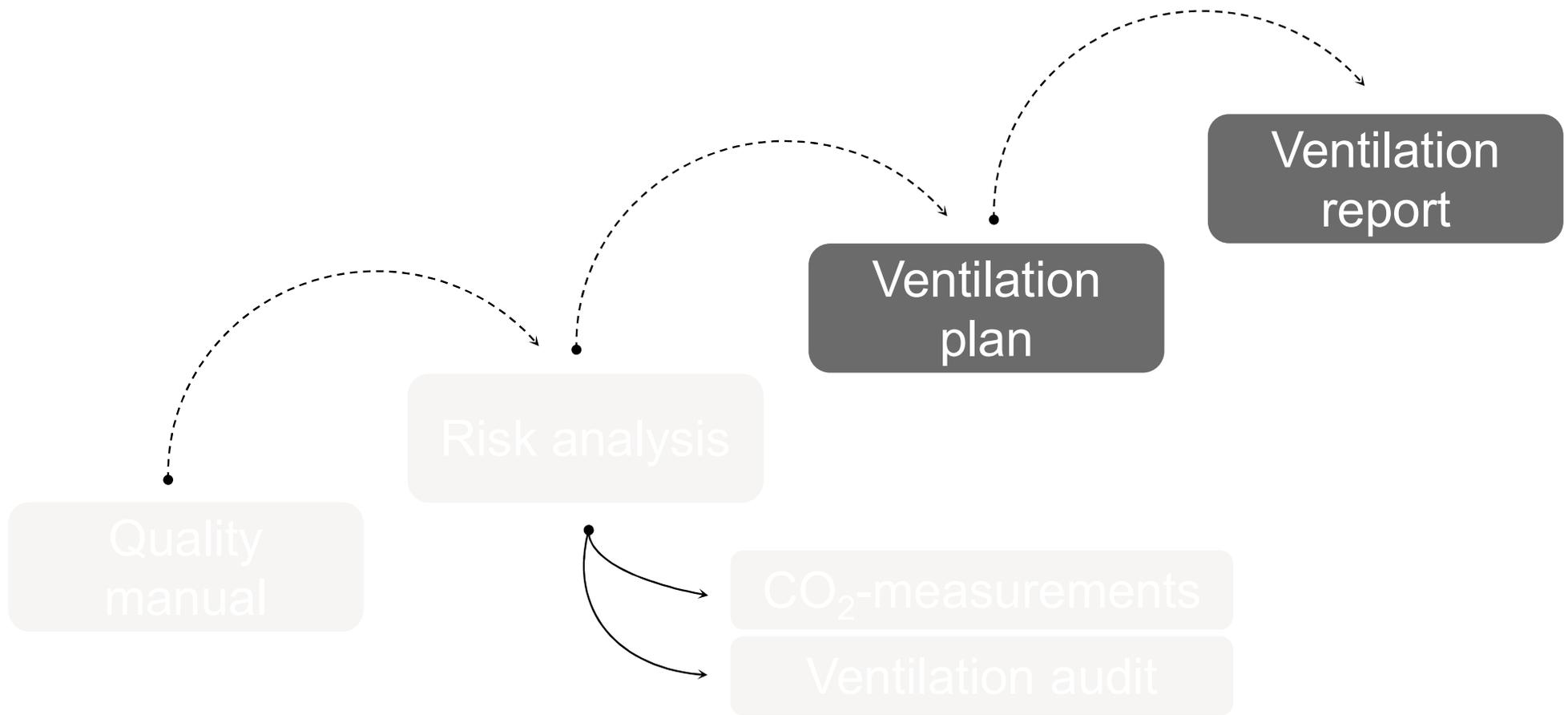


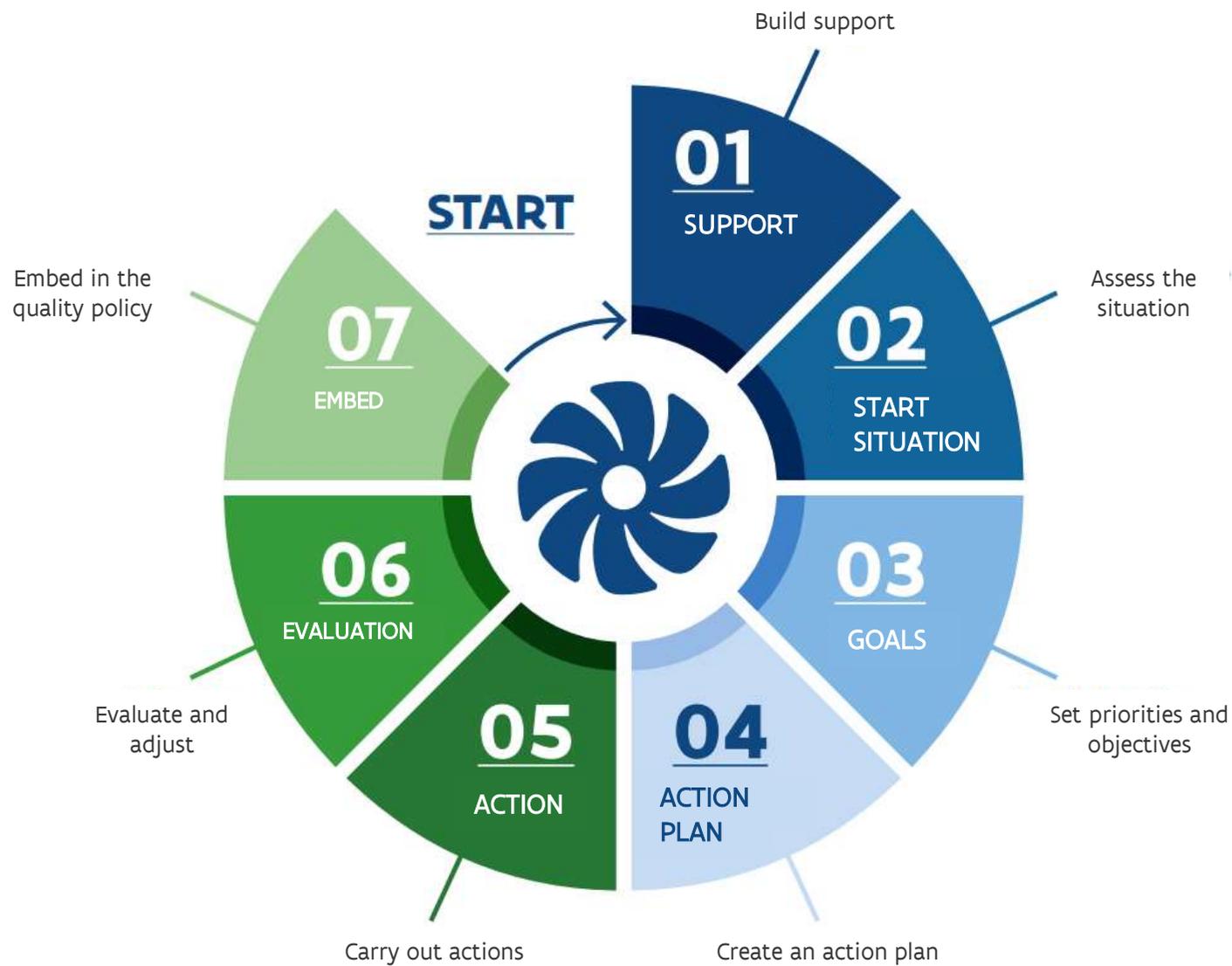


Ventilation audit



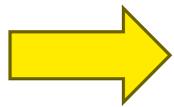
- ▶ General description of ventilation installations present
- ▶ Overview of which ventilation system is present in which room
- ▶ Overview of the minimum ventilation flow rate required in each room to comply with applicable regulations
- ▶ Actions and investments that are needed in the short and long term
- ▶ Results of an air quality test: CO₂ measurements in 5 living spaces per building for up to 3 weeks





CO₂ measurements
Areas for improvement
Action on short & long term
Maintenance

Key elements of the ventilation plan & report



Mandatory for residential care facilities (elderly)

Mandatory for residential care facilities

Normal situation

Maximum: 1200 ppm
Target value: 900 ppm

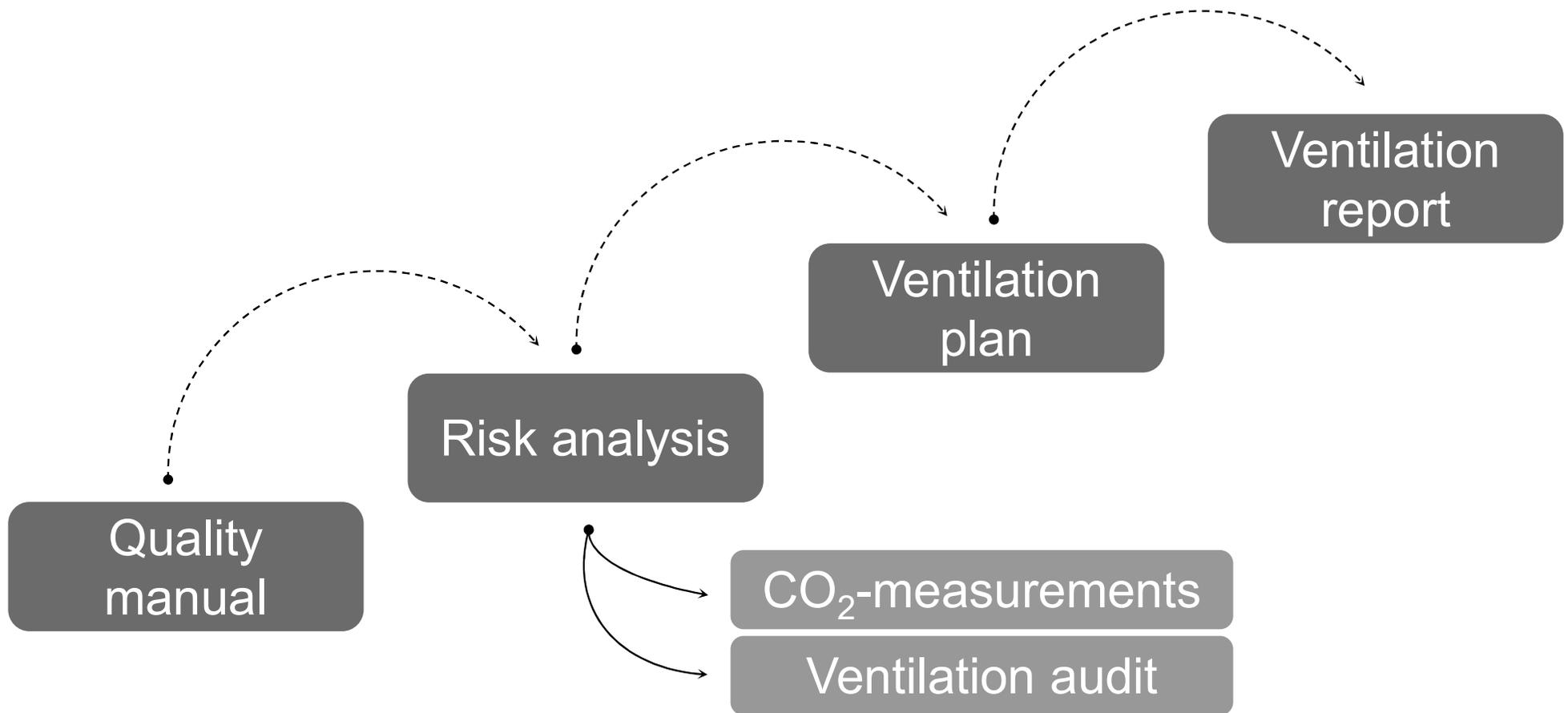
In case of an increased risk of infection with respiratory diseases

- (suspected) outbreak
- from level orange of the epidemiological situation of respiratory infections in Belgium

Maximum: 900 ppm



Respi-radar



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