



Cultural Heritage Agency
Ministry of Education, Culture and Science

Finding the optimum museum storage

*What can be learned from an evaluation
in the Netherlands*

Bart Ankersmit

Klima og museumssamlinar i møte med økonomiske utfordringer
Bergen, Norway
24-25 april 2023



Rijksmuseum - 1905



Rijksmuseum - 1974



1950



1975

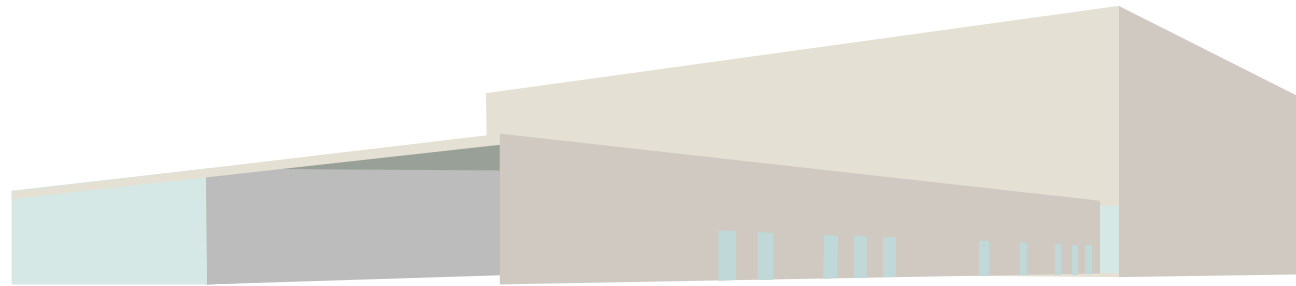
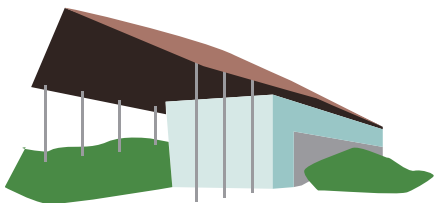
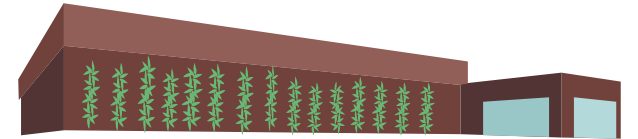
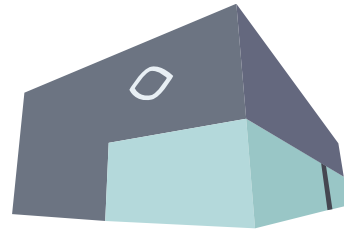
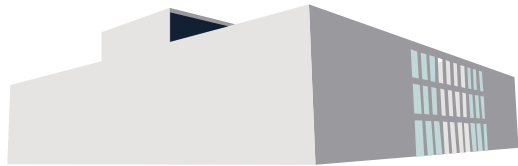
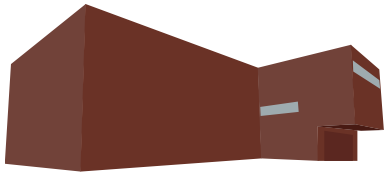
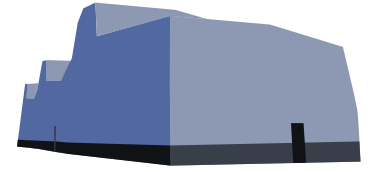
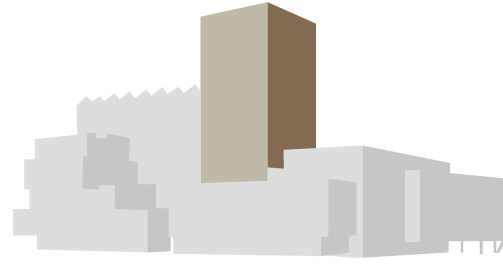
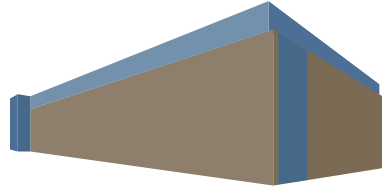
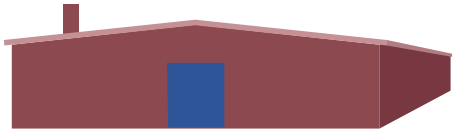


1996

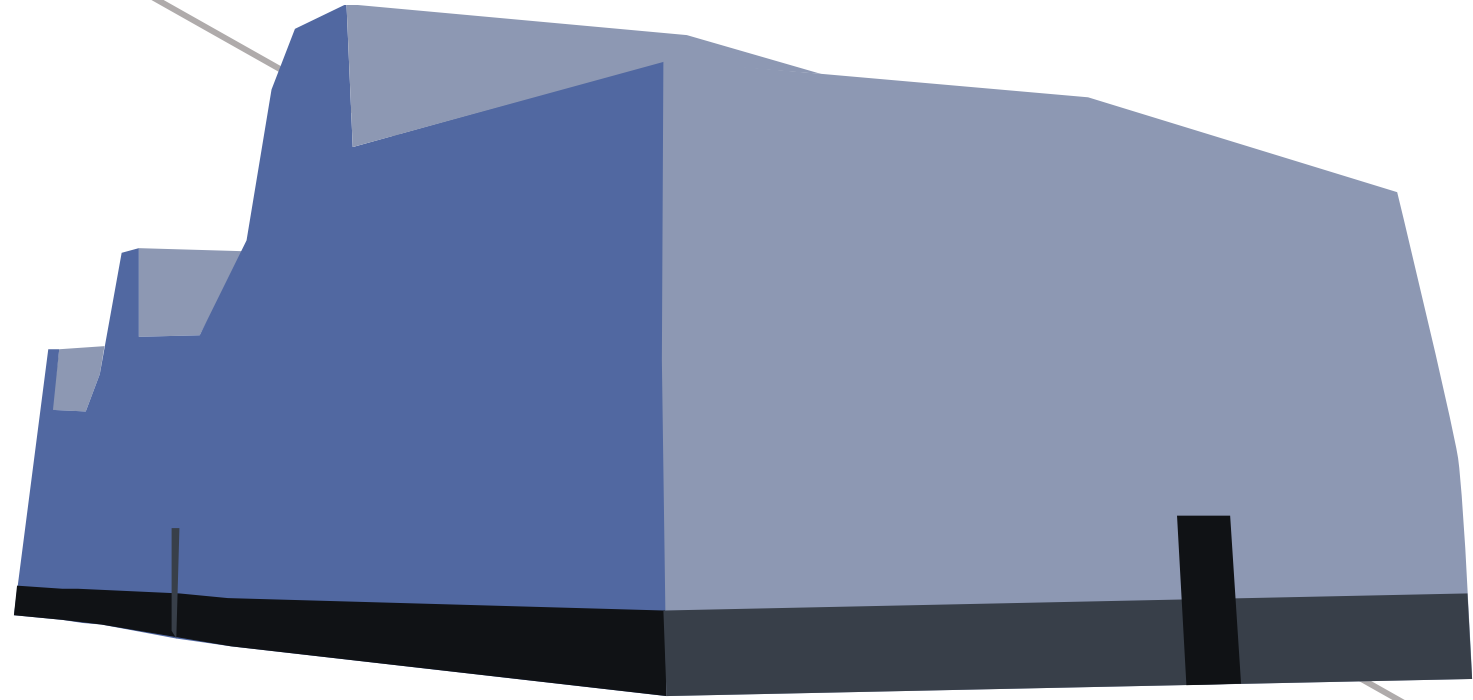


Off site storage 2002

Purpose built storages in the Netherlands

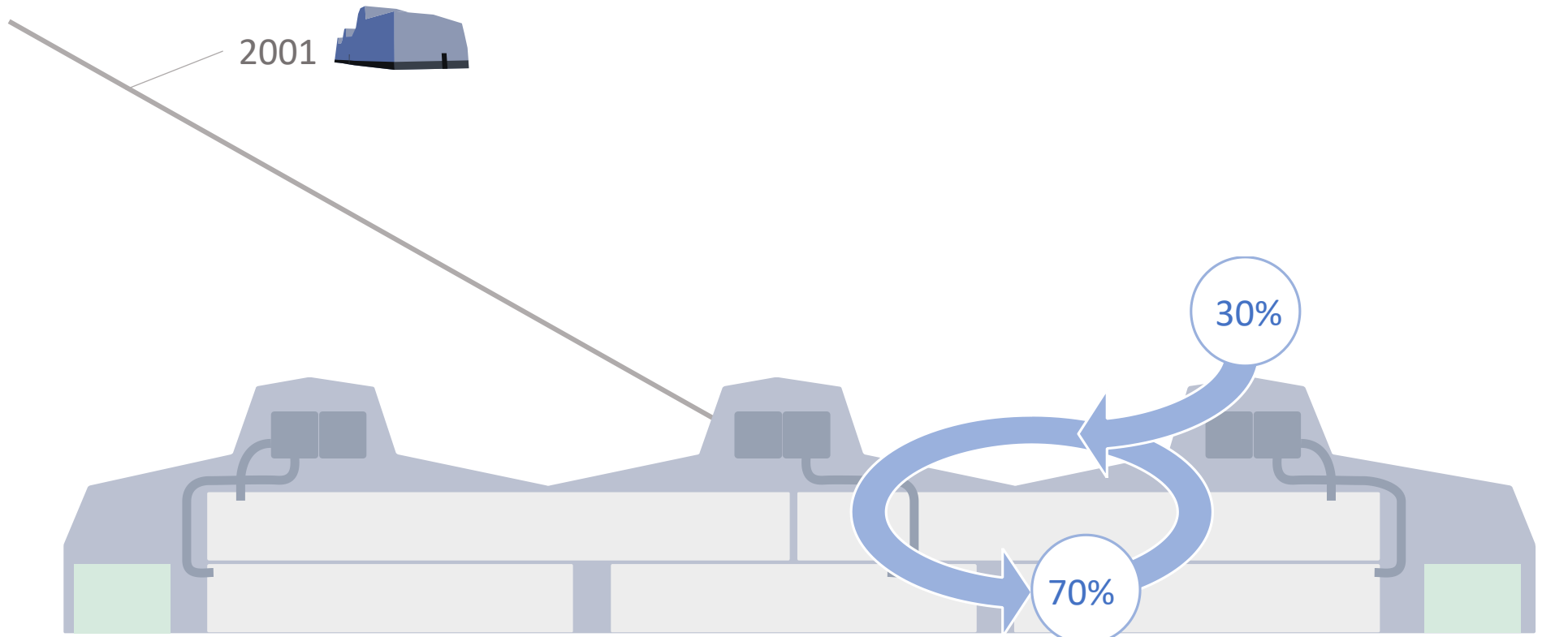


2001



Maritime Museum Amsterdam





2001



30%

70%

$18^{\circ}\text{C} < T < 22^{\circ}\text{C} (\pm 2^{\circ}\text{C})$
RH = $50\% \pm 5\%$ (\rightarrow now $55\% \pm 2\%$)



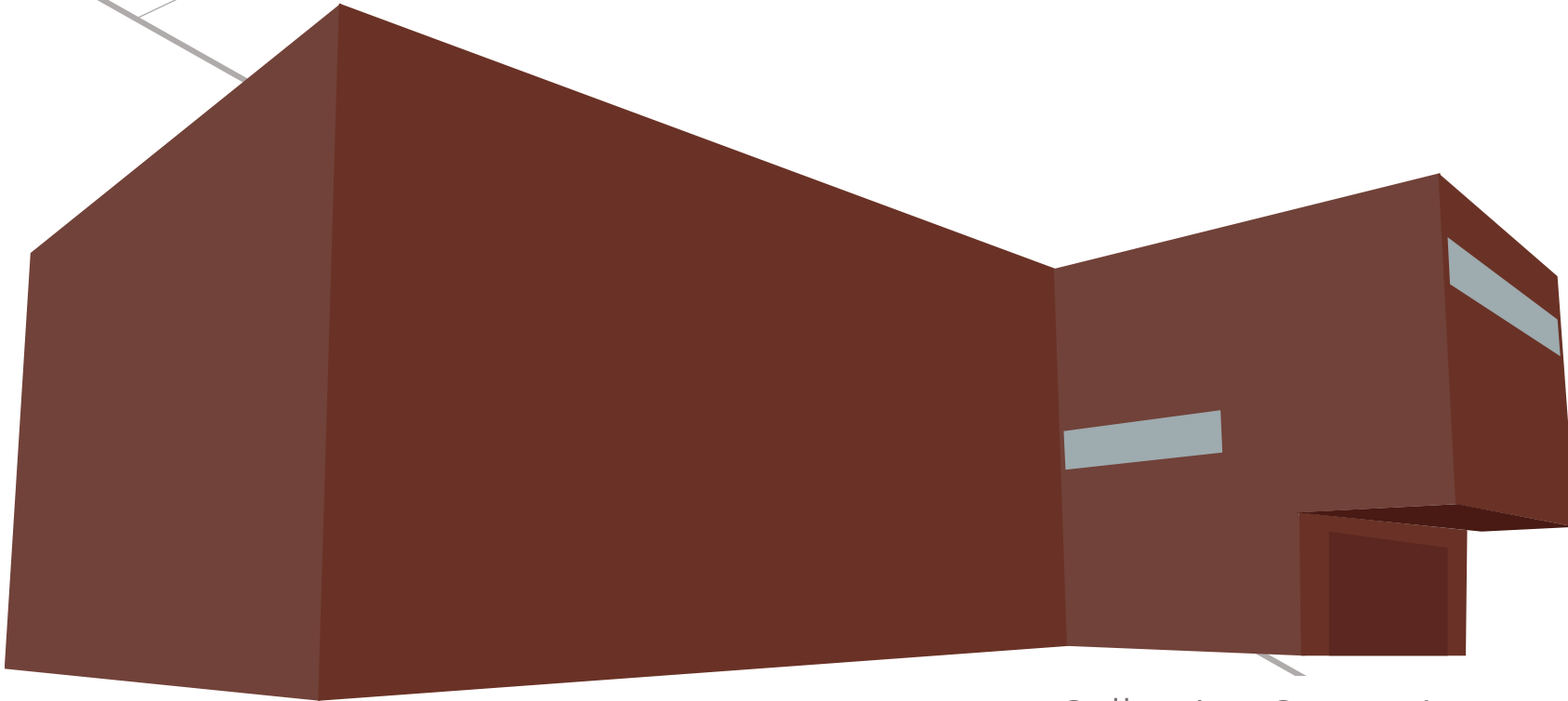
2001



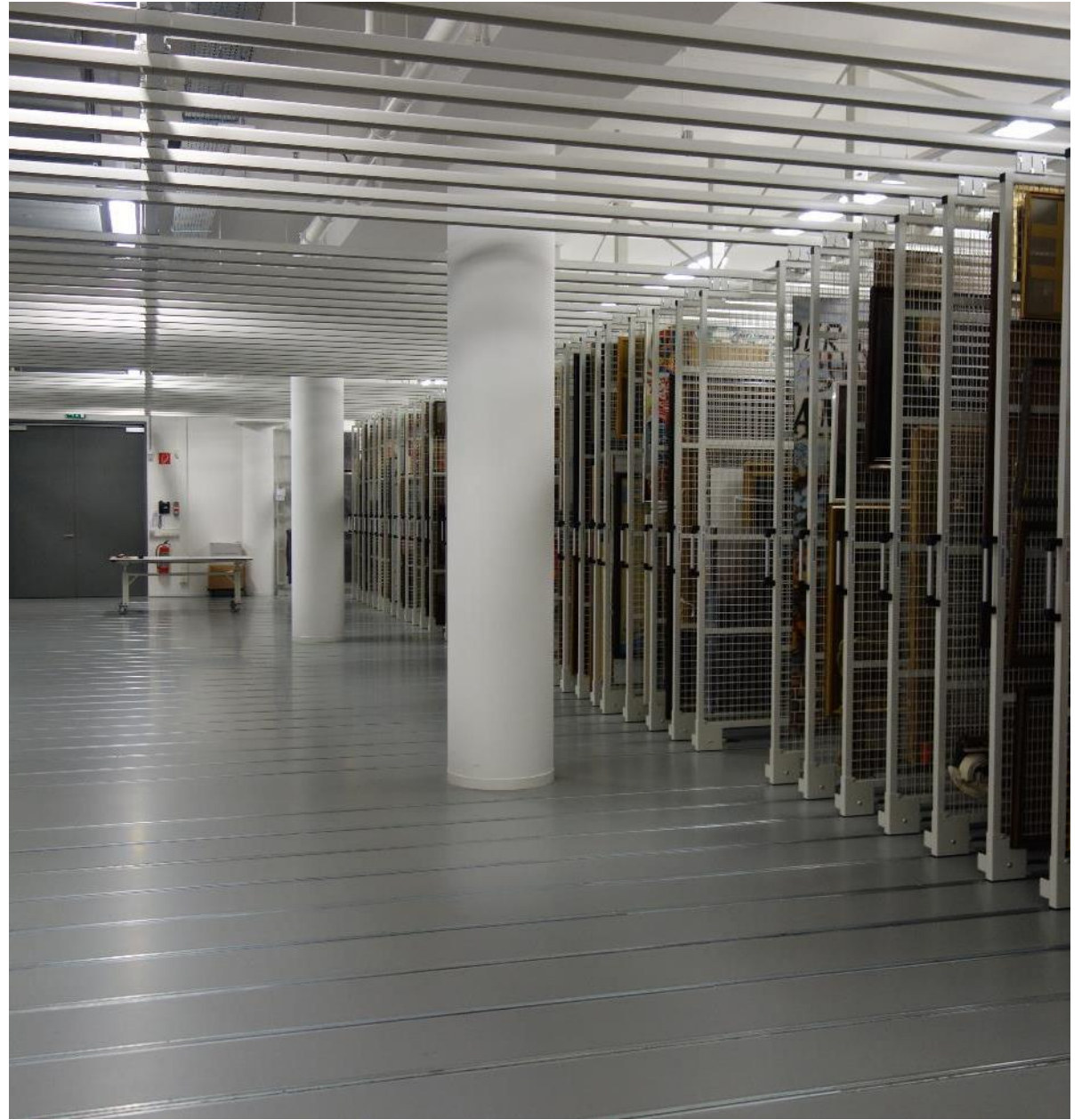
2009

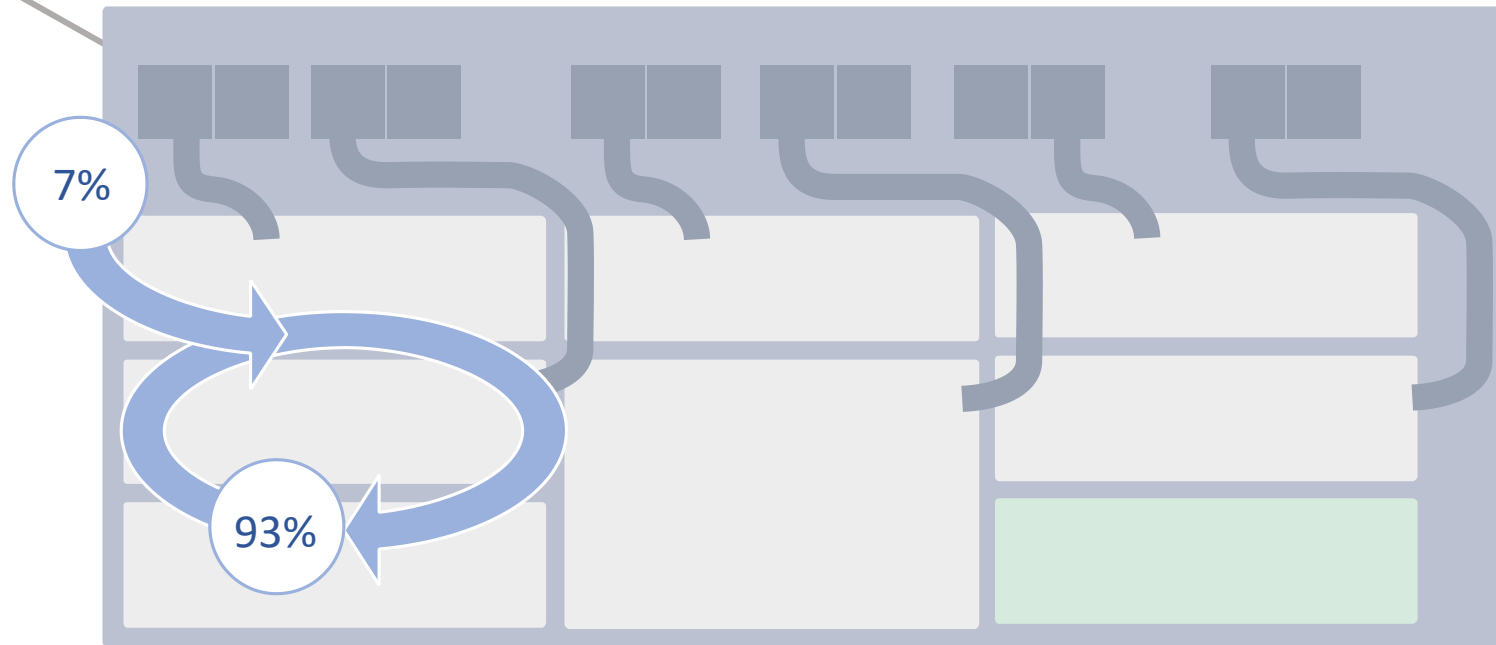
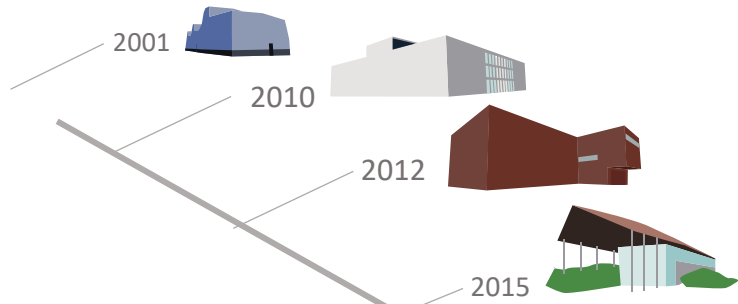


2010

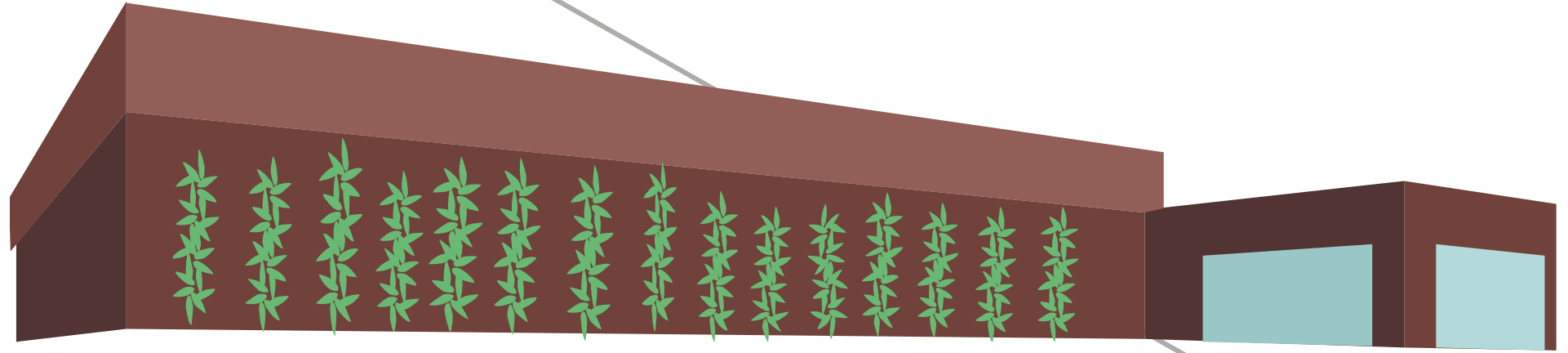
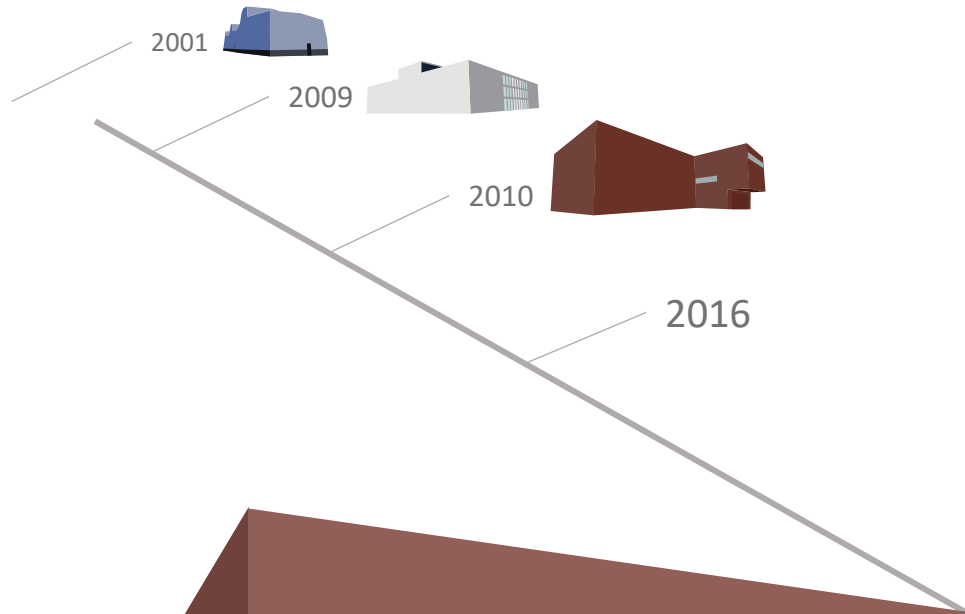


Collection Center Amsterdam

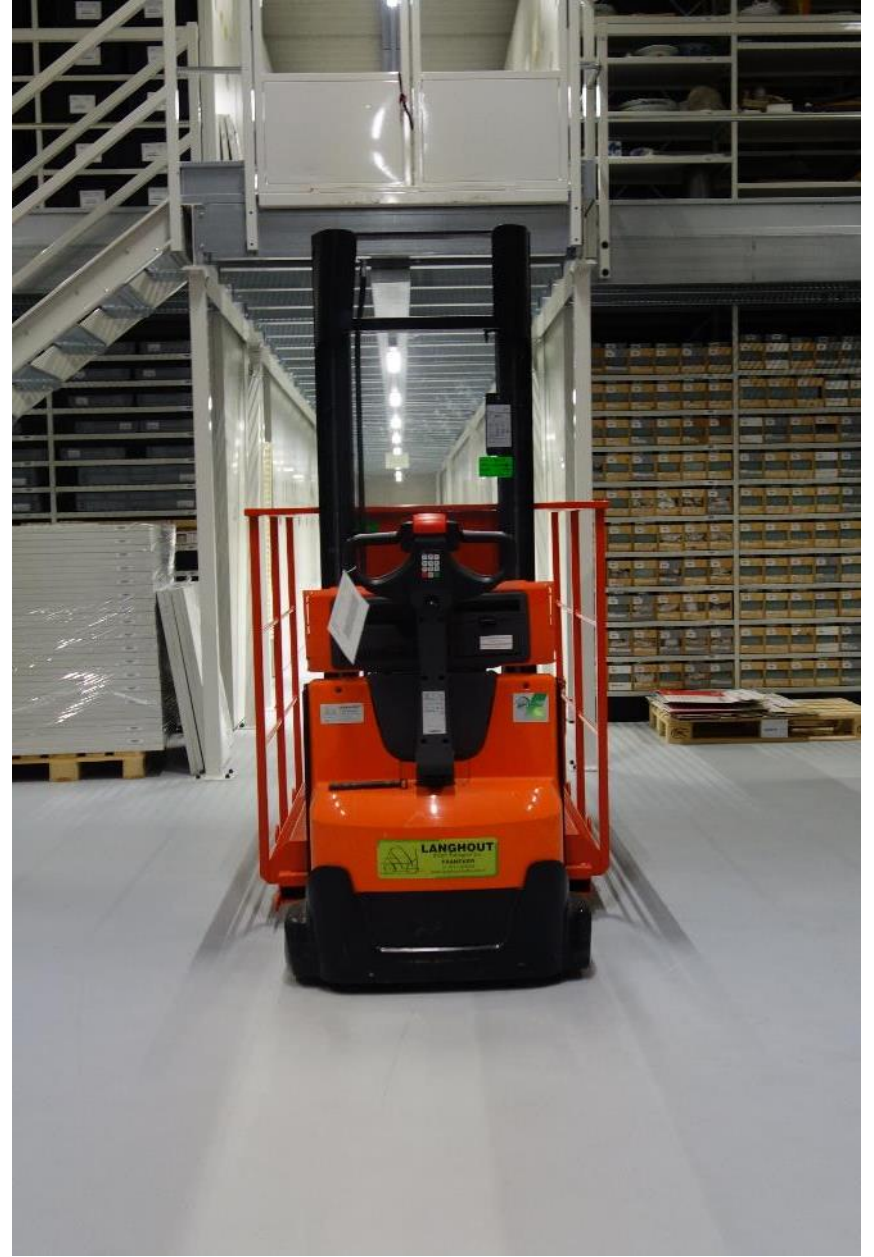


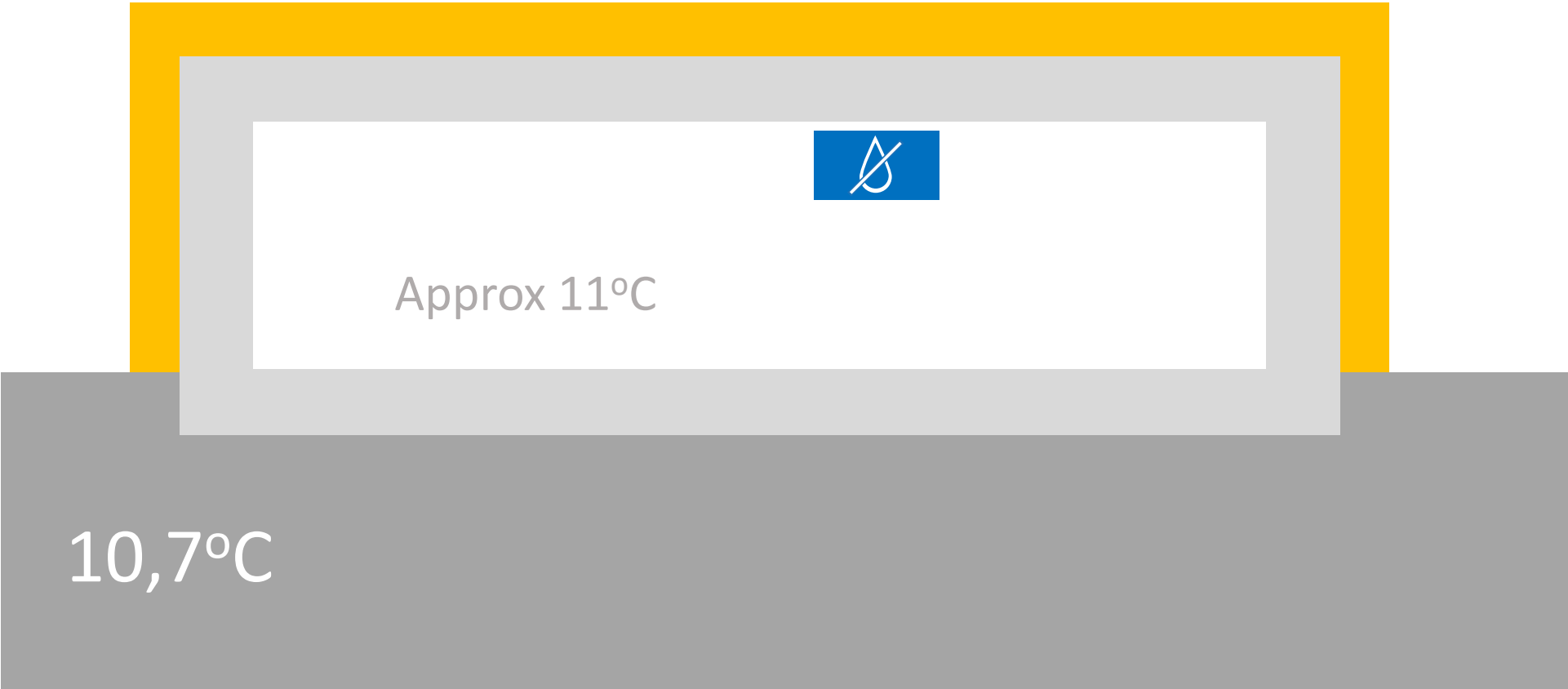


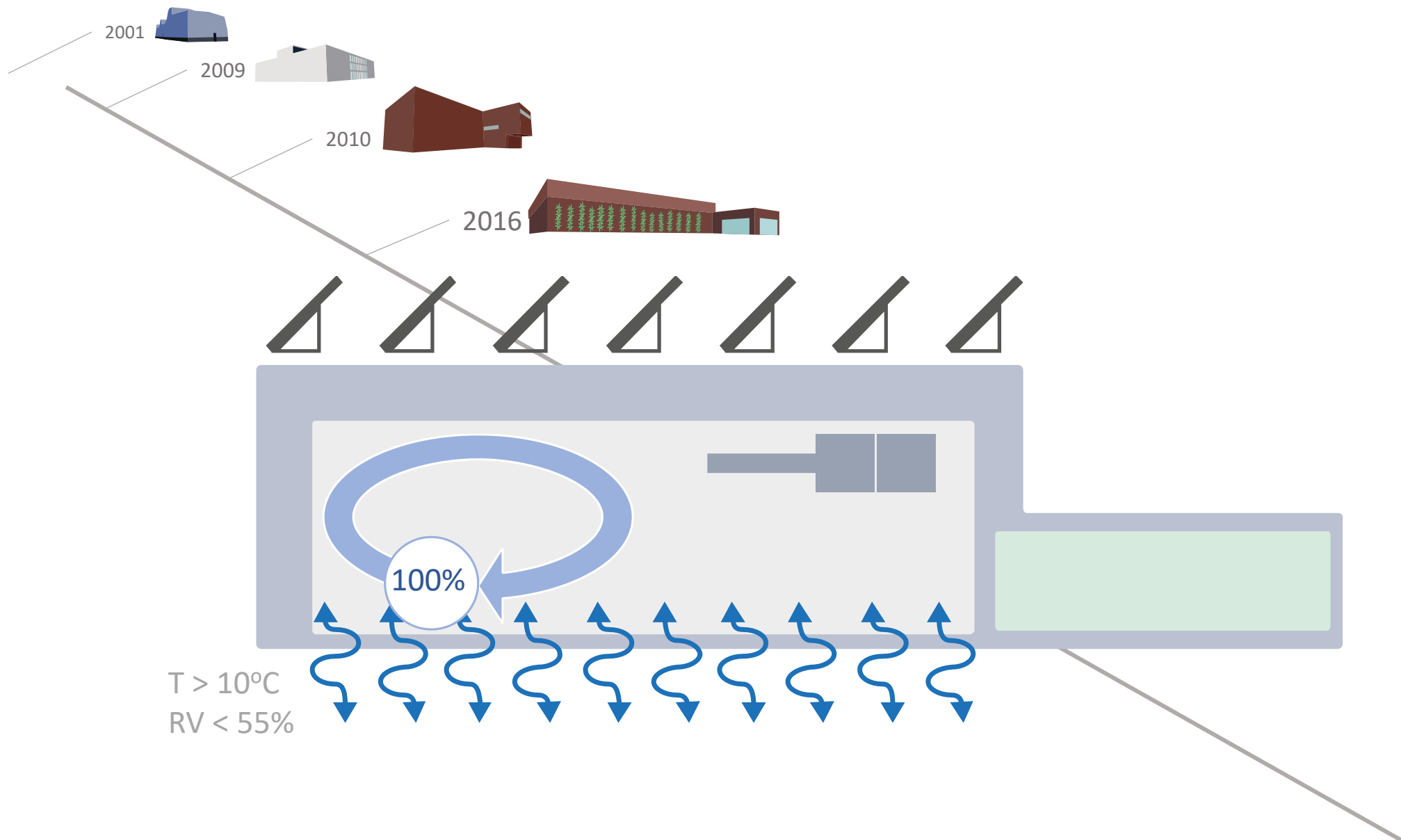
$18^{\circ}\text{C} \pm 1^{\circ}\text{C} < T < 22^{\circ}\text{C} \pm 1^{\circ}\text{C}$
 $48\% \pm 3\% < \text{RH} < 52\% \pm 3\%$

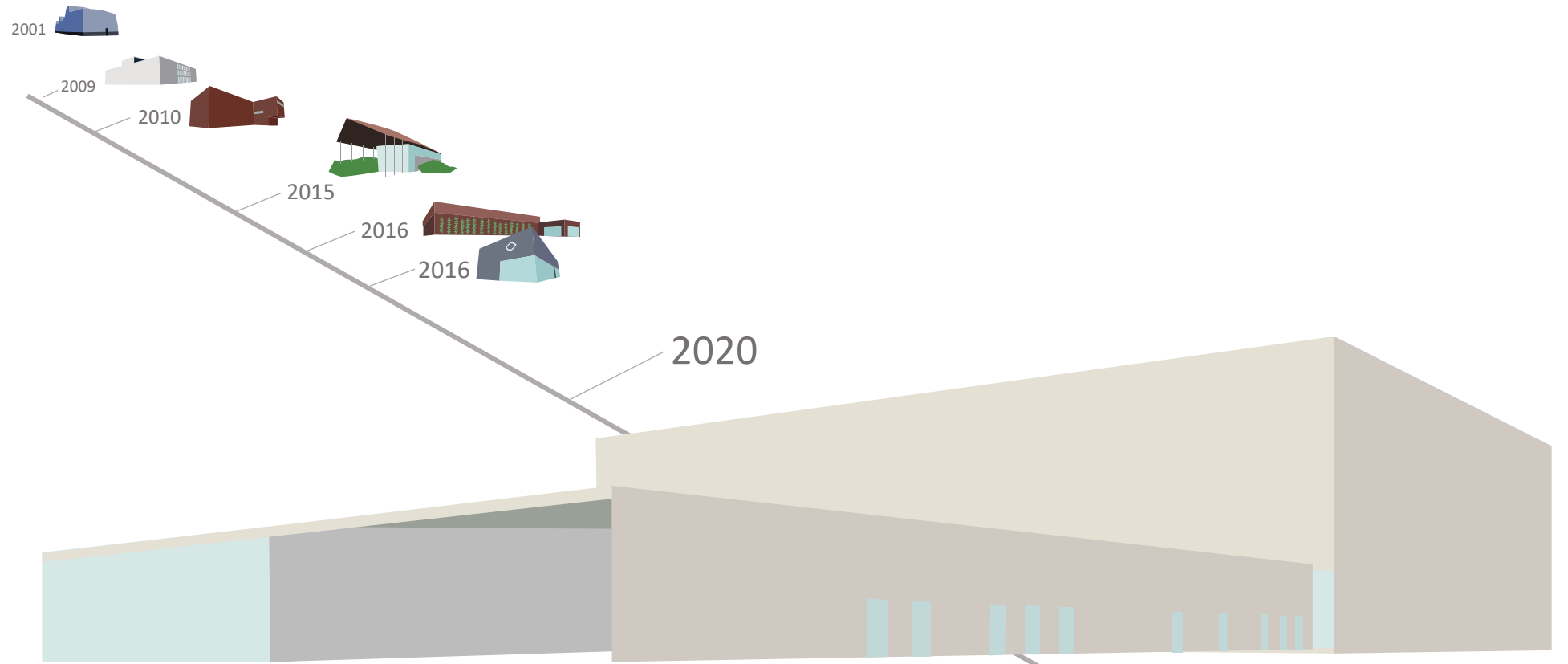


Collection Center Leeuwarden



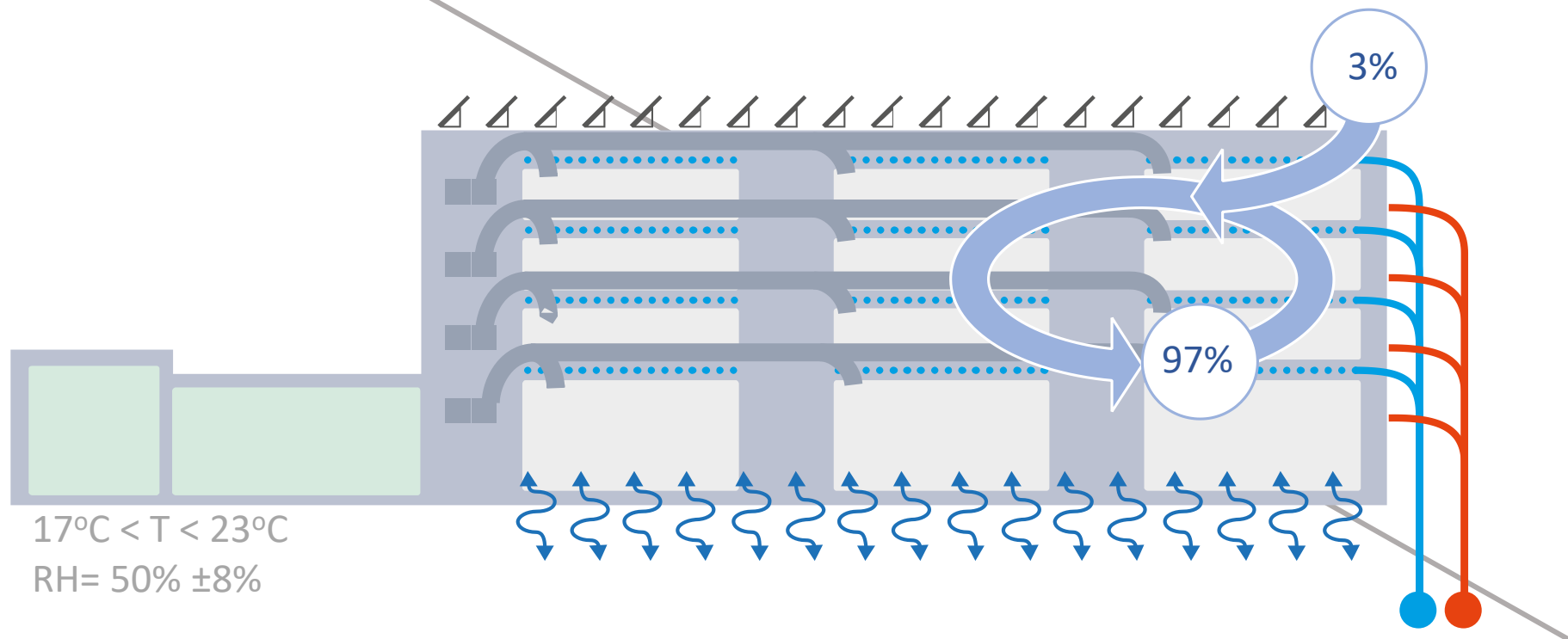
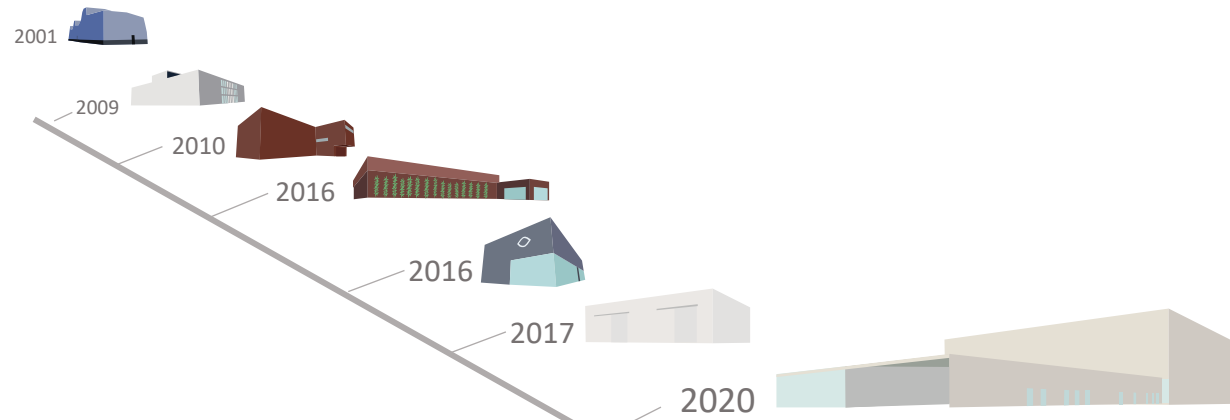


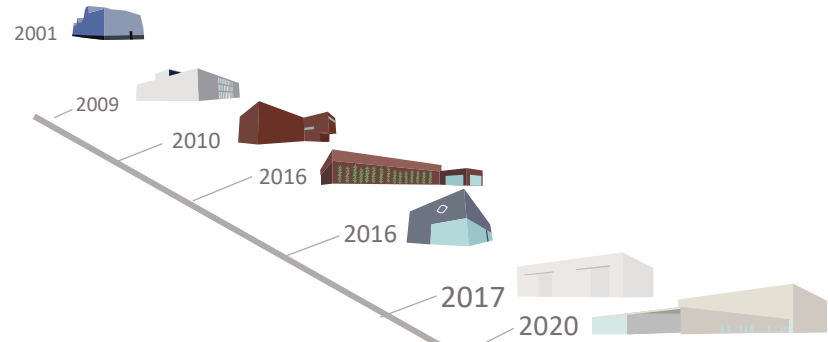




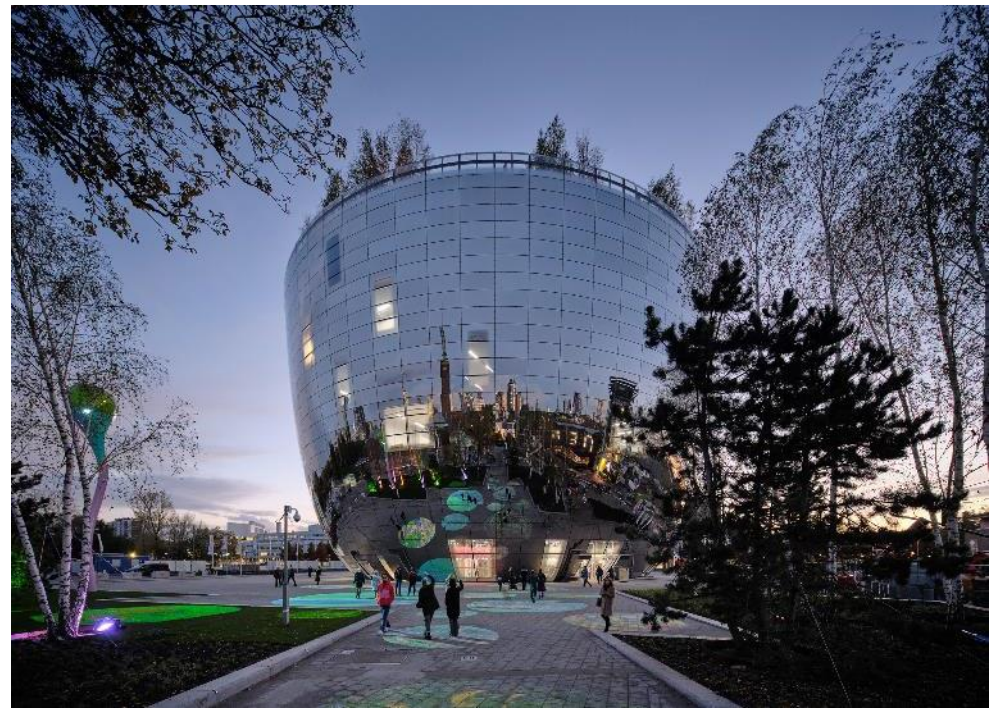
CC-NL Amersfoort

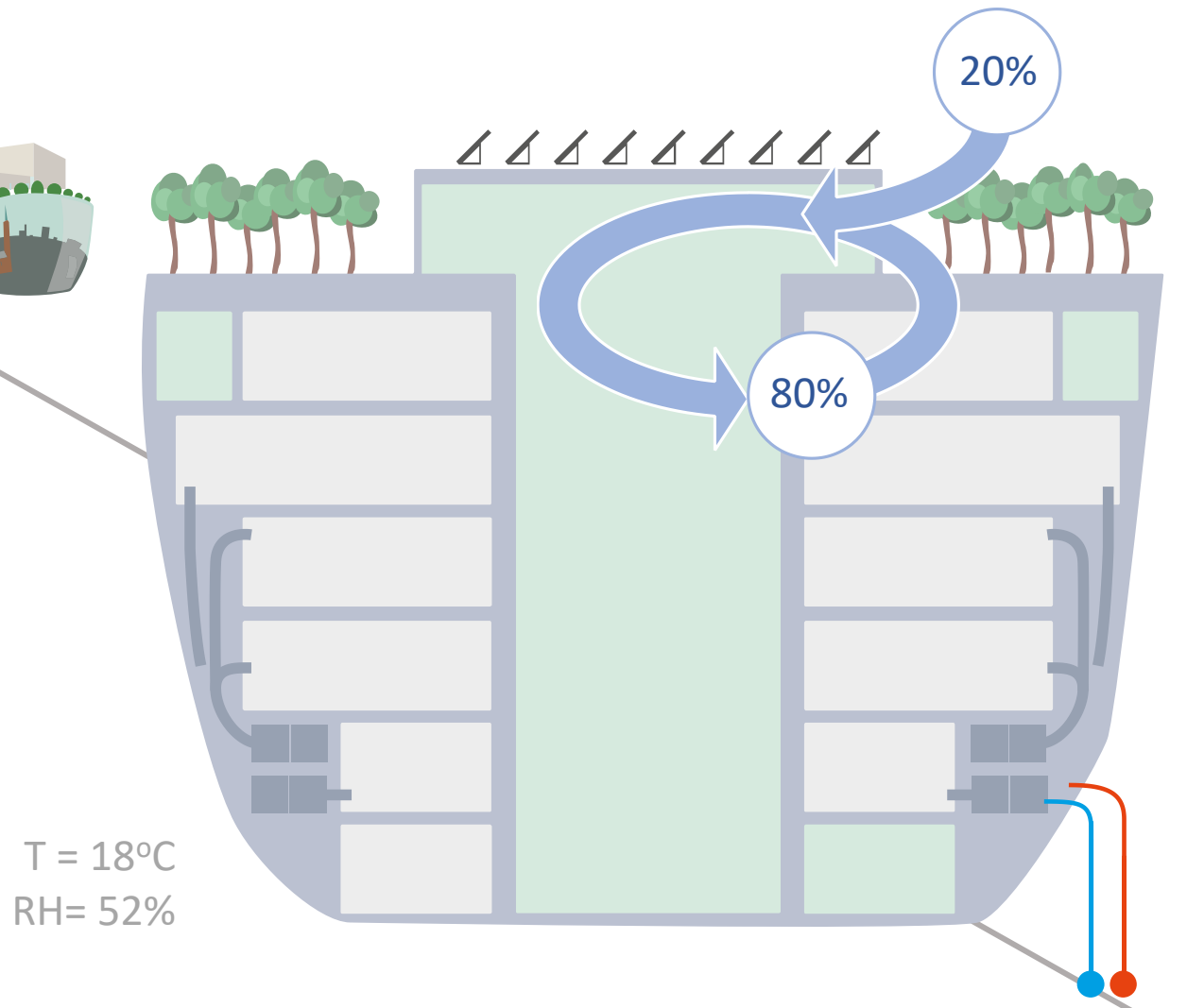
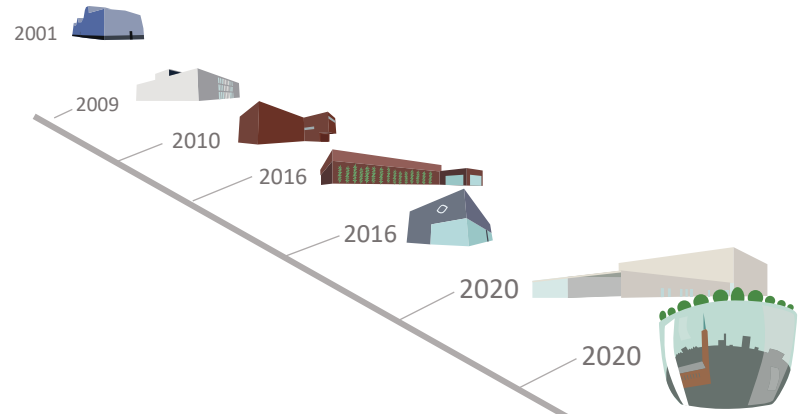




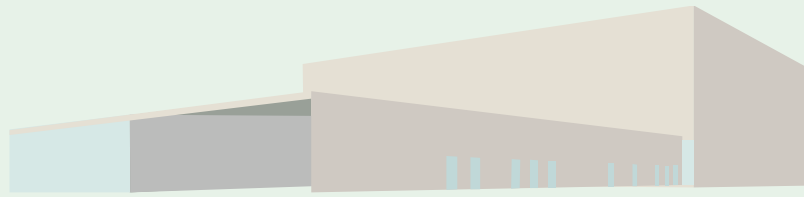


Storage Boijmans van Beuningen Rotterdam

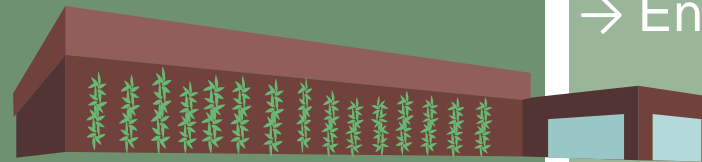
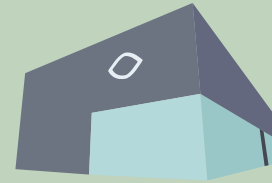
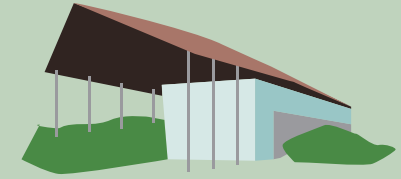




How can we evaluate these buildings?

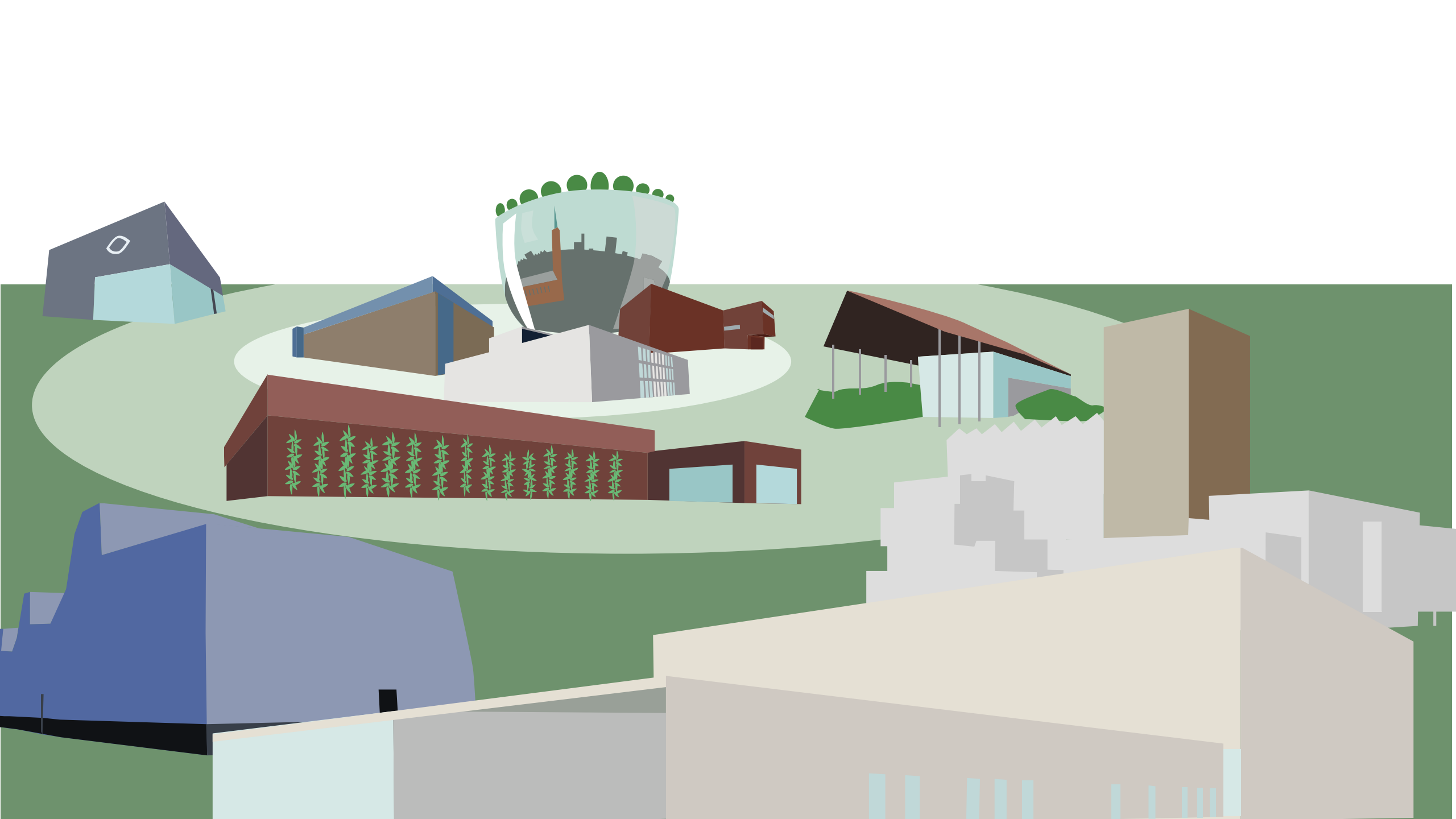


→ Access



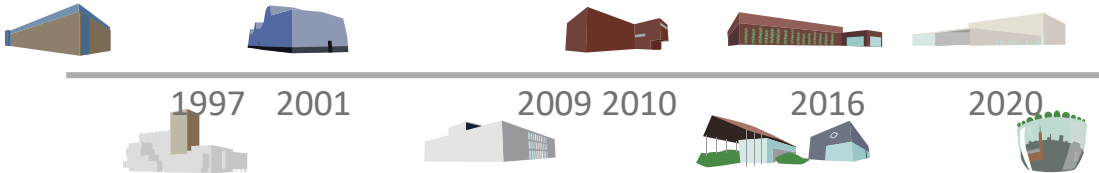
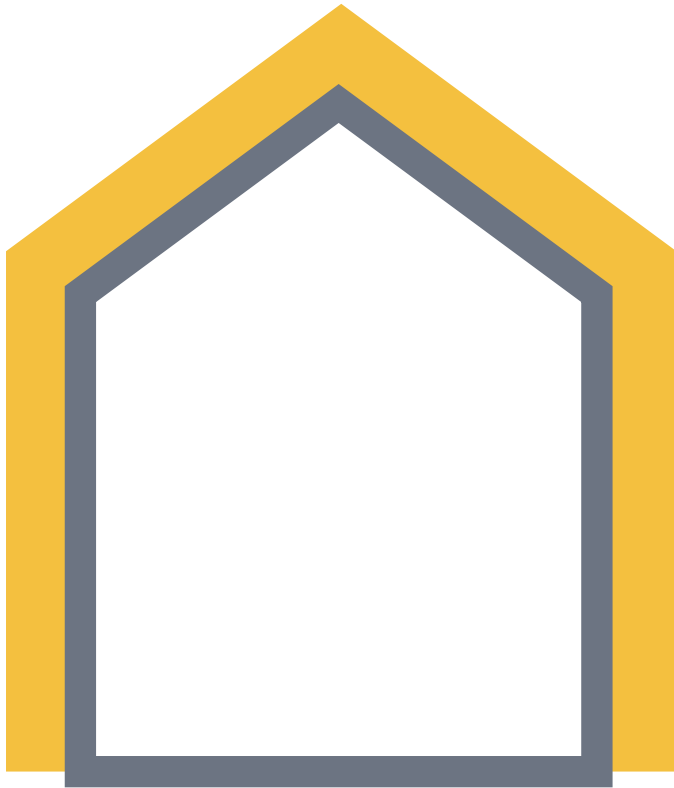
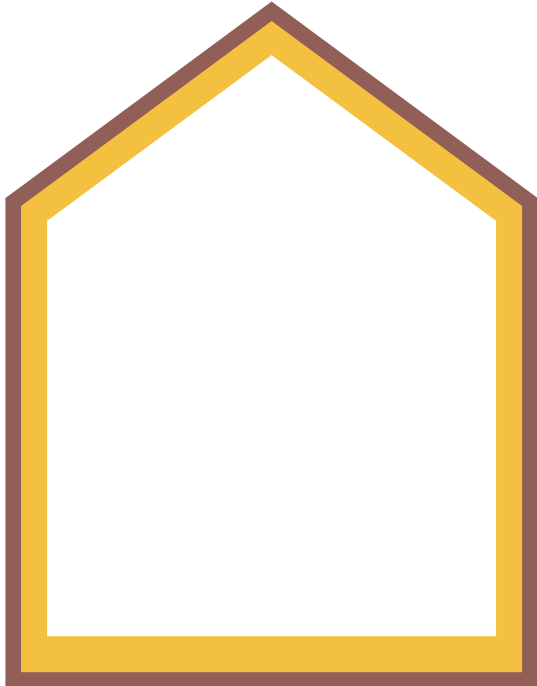
→ Energy





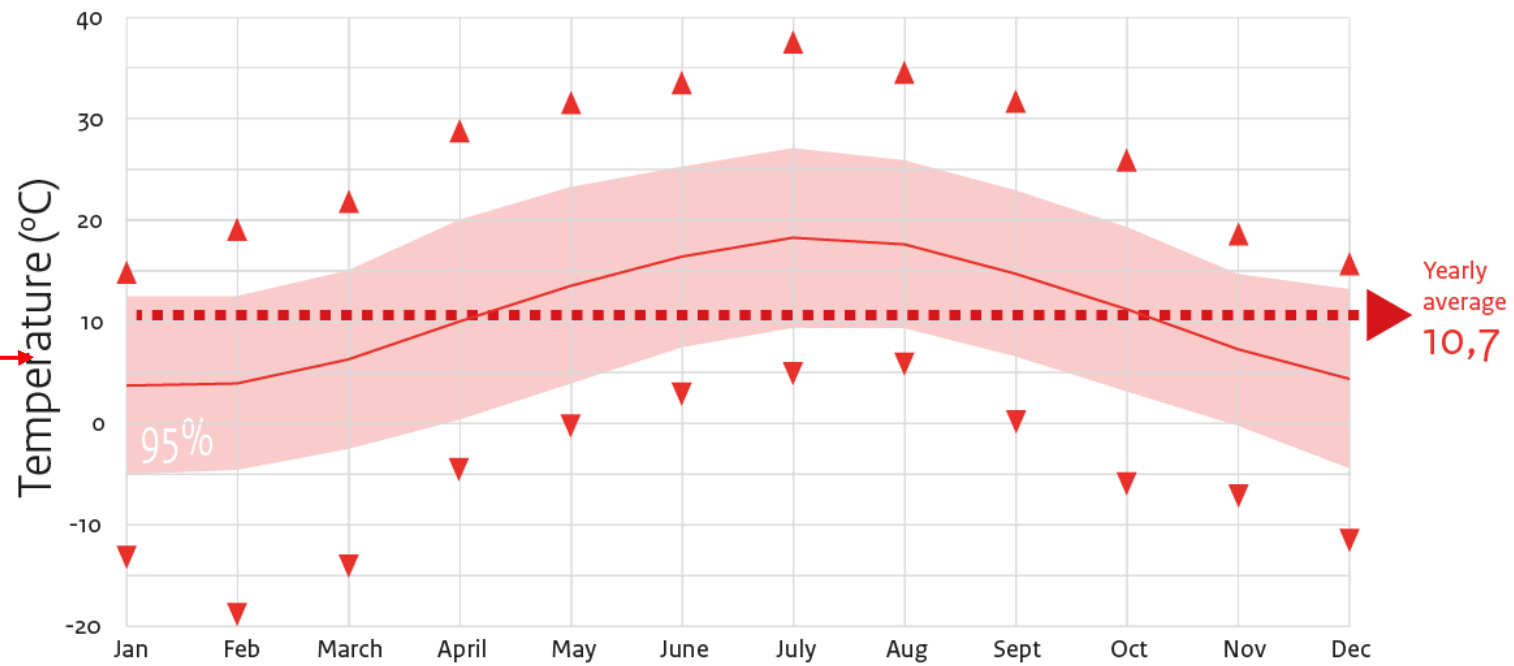
Are there any trends?

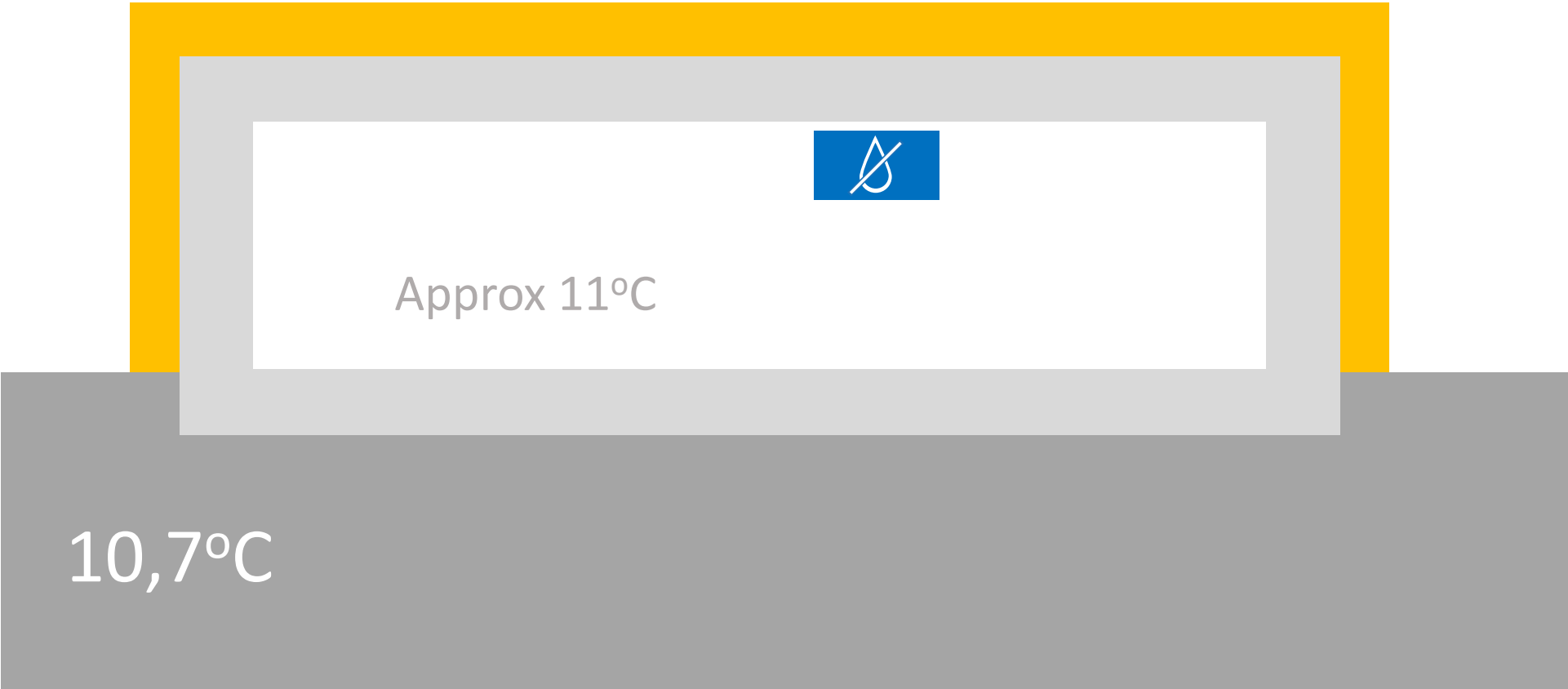
Thermal insulation



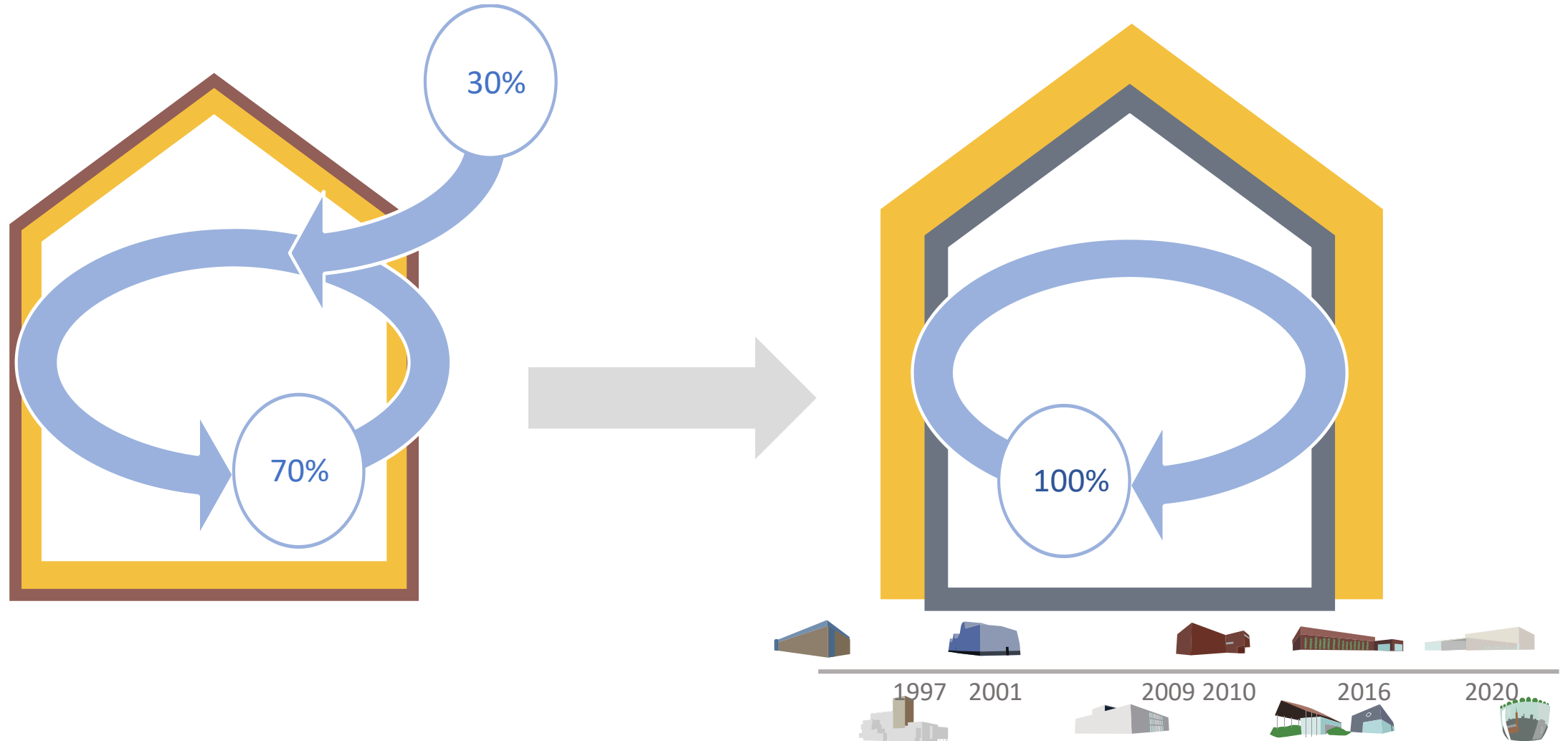


oil temperature in the Netherlands





Ventilation & recirculation

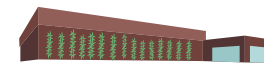
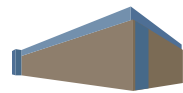


Project proces



Building + Furniture + Collection

Collection + Furniture + Building



1997

2001

2009

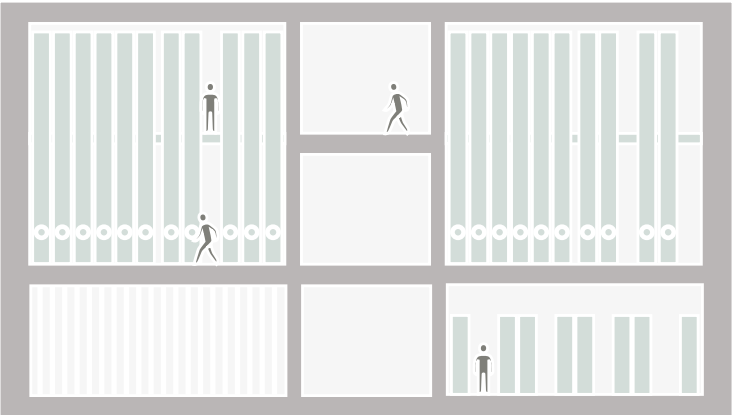
2010

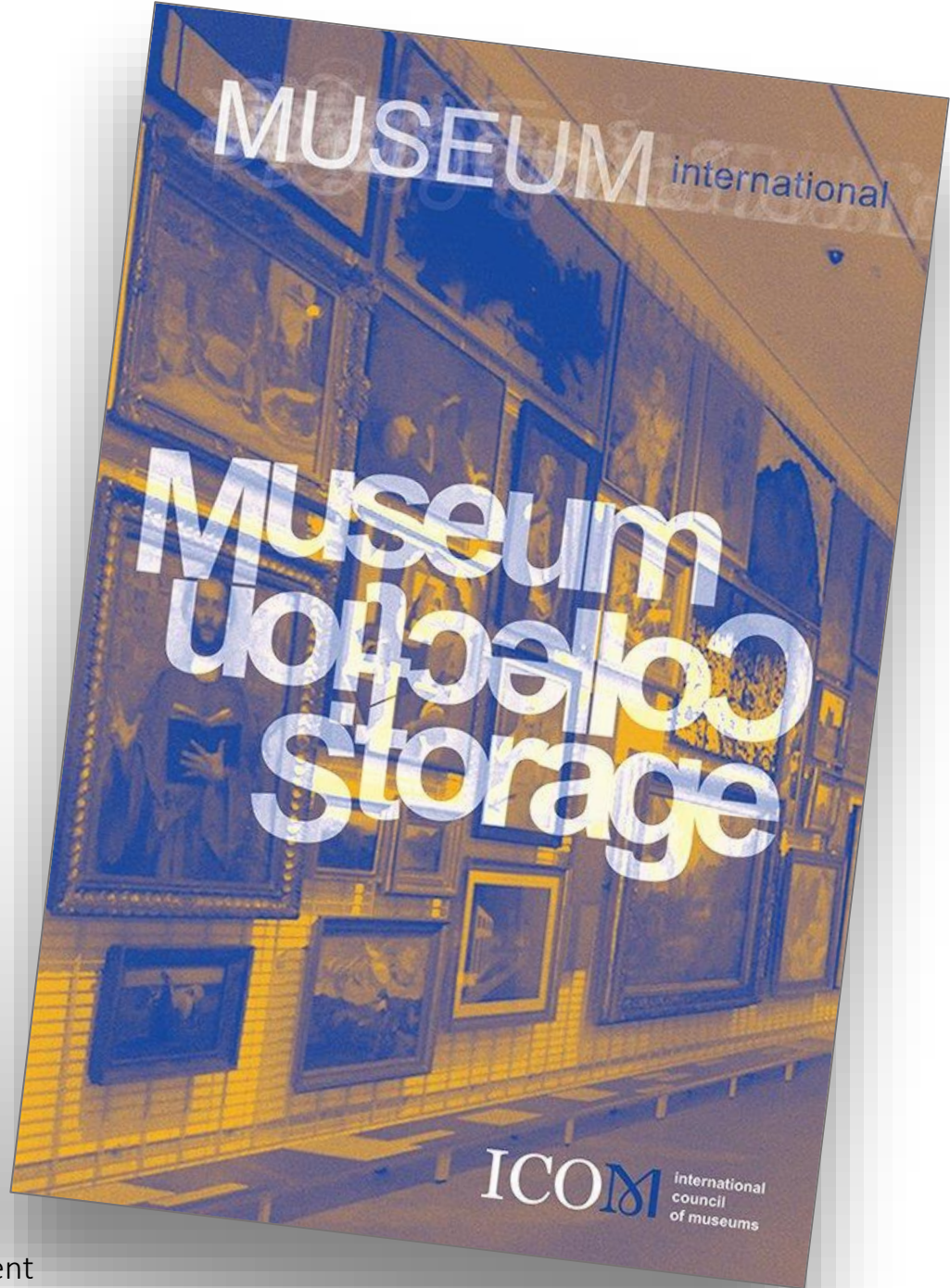
2016

2020



Building layout





MUSEUM international

Museum storage

ICOM international council of museums



Rijksdienst voor het Cultureel Erfgoed
Ministerie van Onderwijs, Cultuur en
Wetenschap



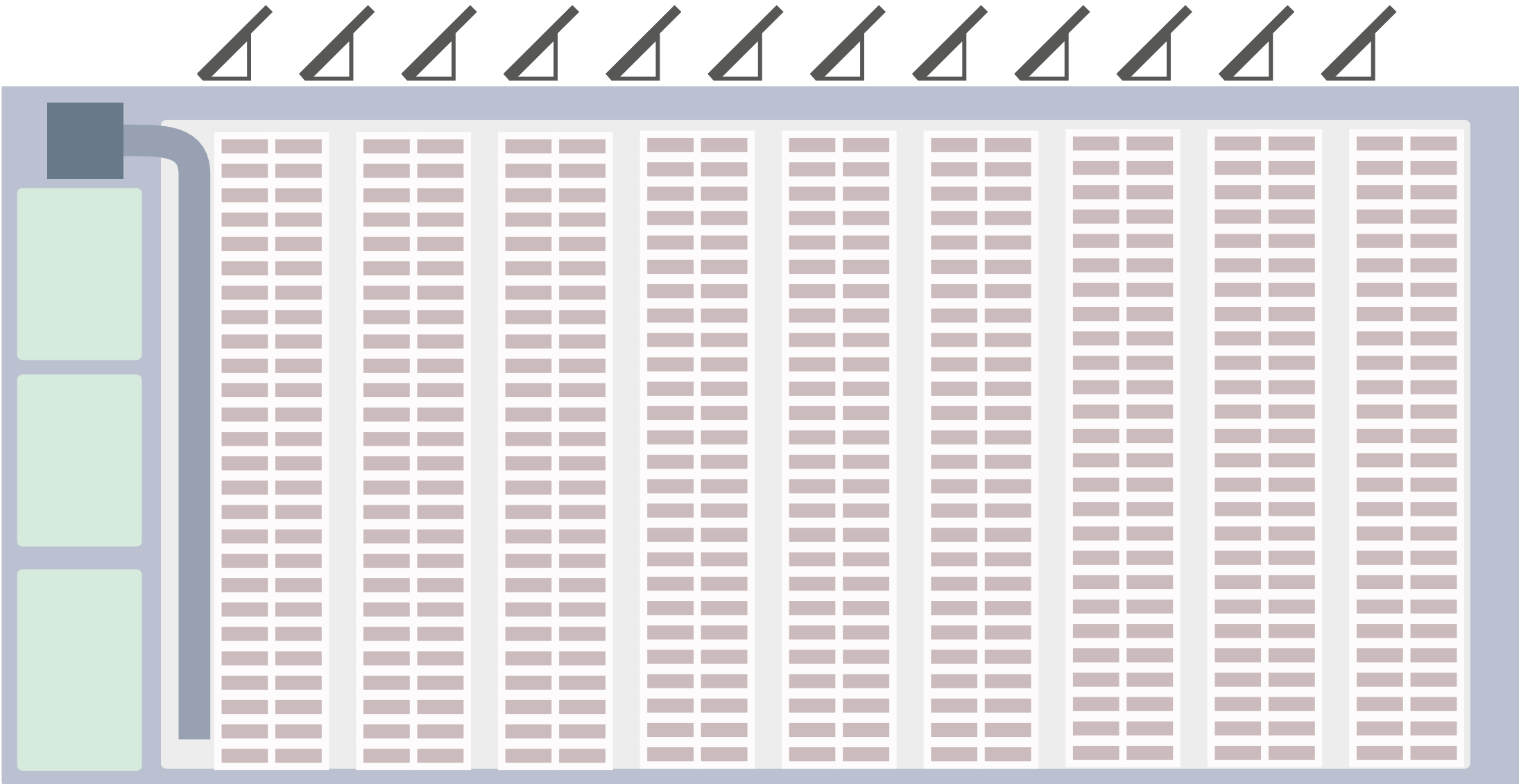
Gebouwd om
te bewaren

Waar staan we met Erfgoeddepots in Nederland?

<https://www.cultureelerfgoed.nl/publicaties>

Most recent project

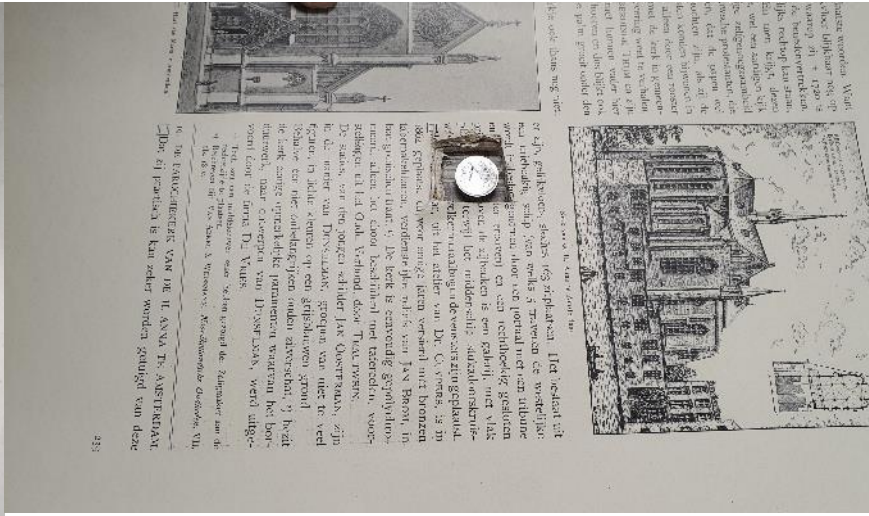




High density storage

Hygric buffer provided by collection

Dry nitrogen used for fire control / dehumidification / circulation





Rijks erfgoedlaboratorium
Rijksdienst voor het Cultureel Erfgoed

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