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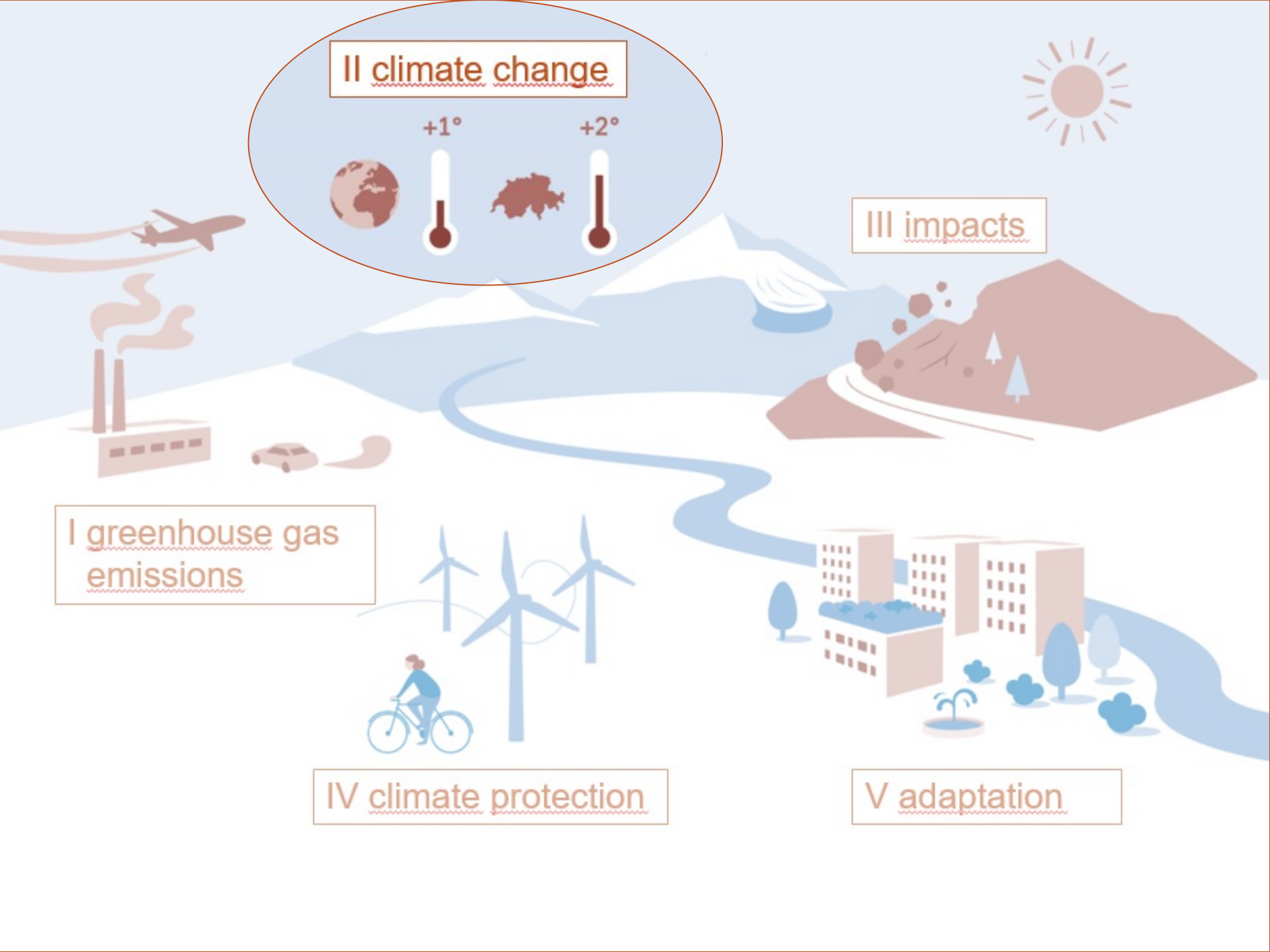
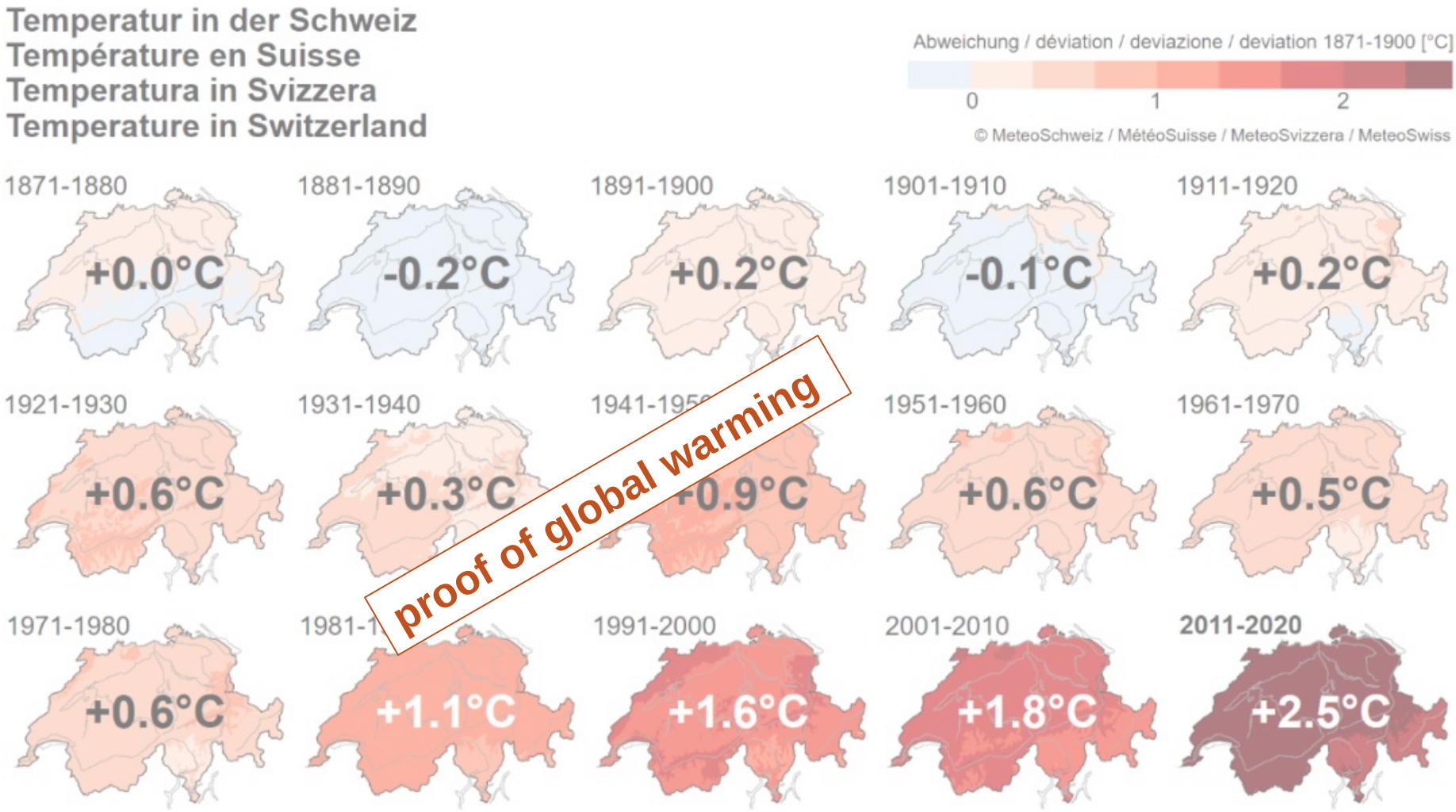
Why Climate Data Matters

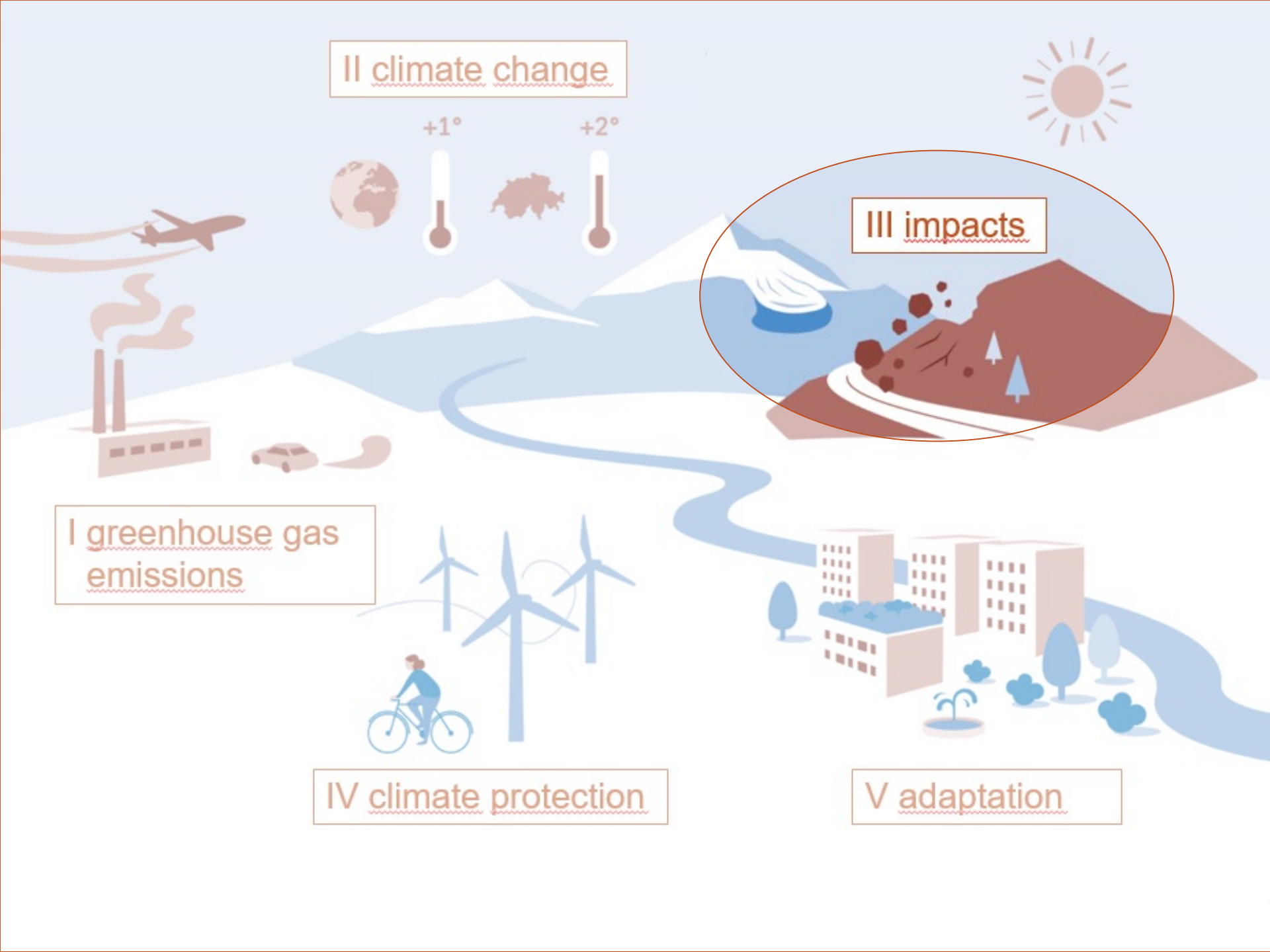
15.3.2021

Carla Gross
Federal Office for the Environment


II climate change
+1°
+2°
III impacts
I greenhouse gas emissions
IV climate protection
V adaptation



Source: MeteoSwiss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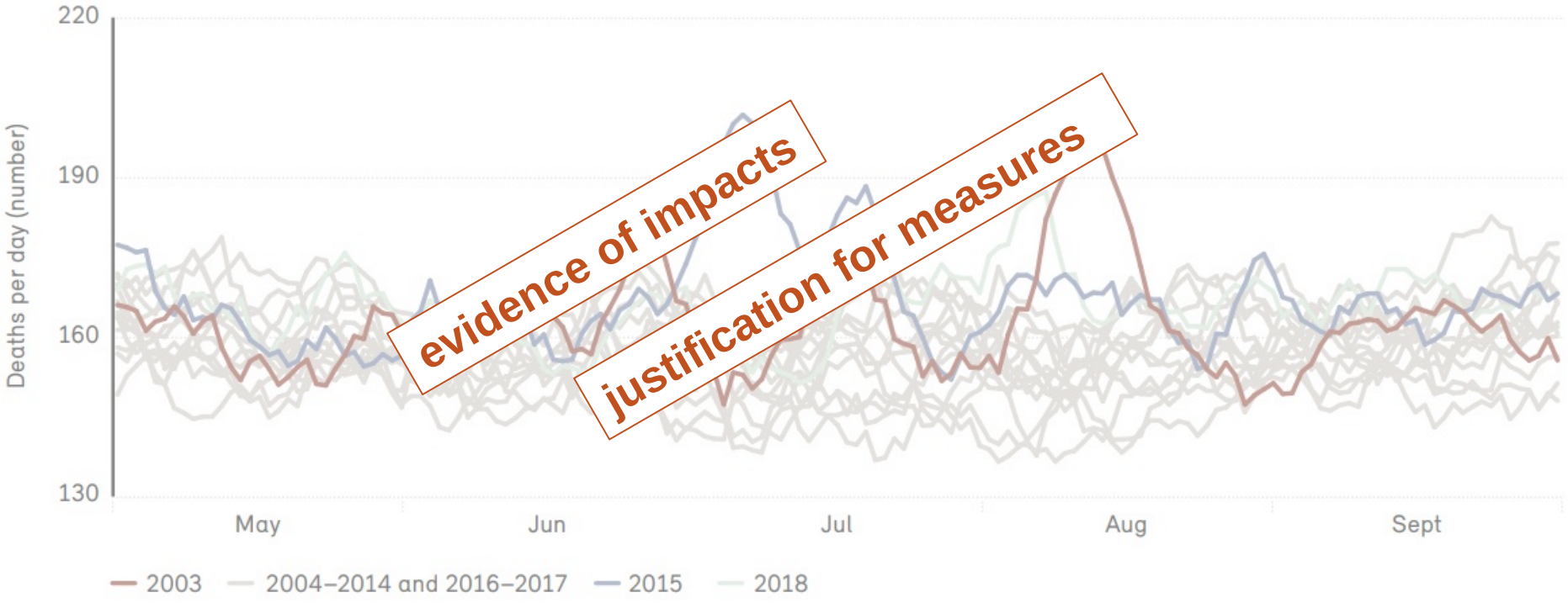
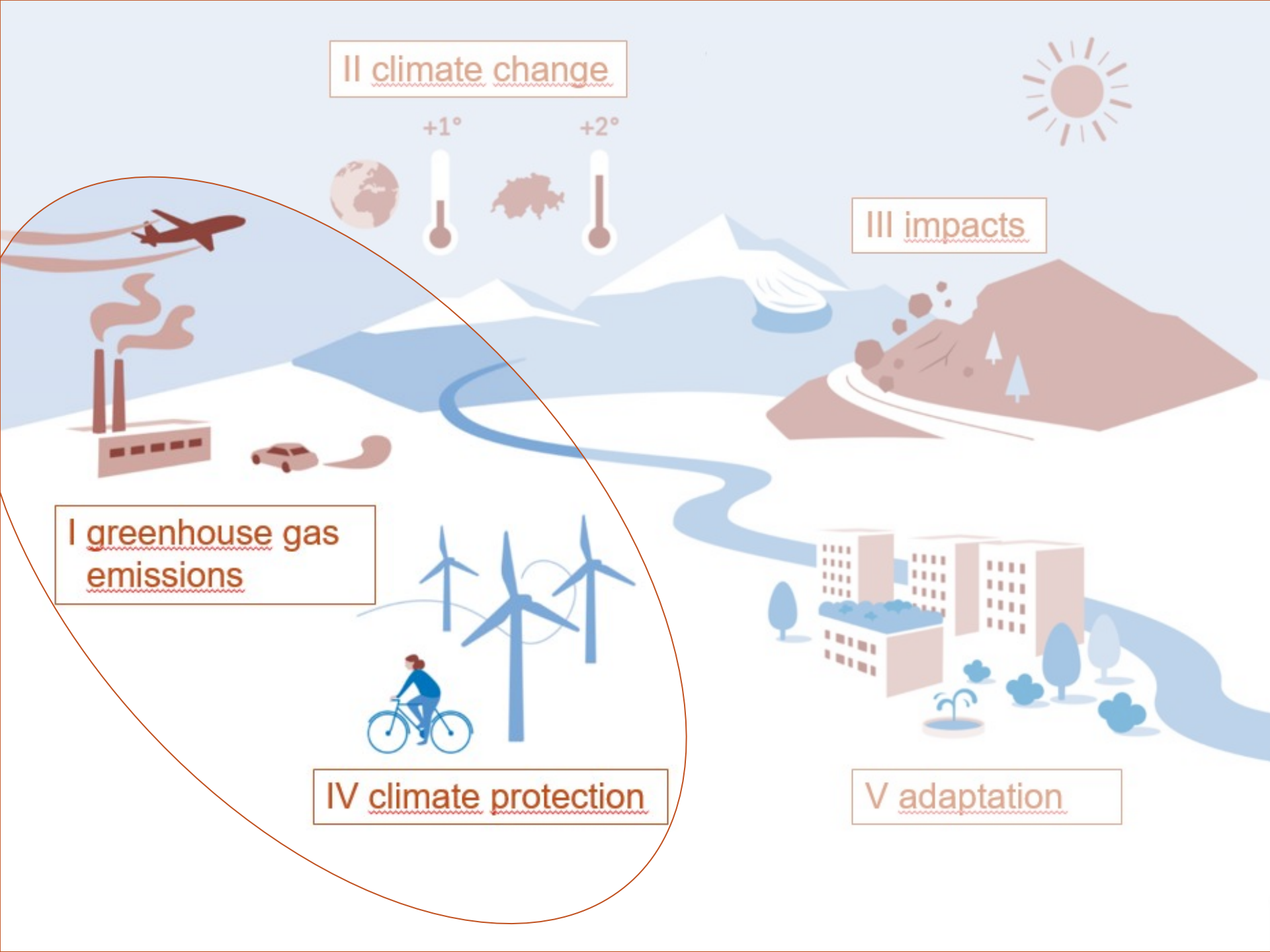
Number of deaths per day during the warm season, 2003 – 2018

Deaths in Switzerland between May and September. Smoothed lines based on the seven-day mean values (three days before and three days after the plotted value). Absolute values, not adjusted for population growth between 2003 and 2018.



Source: FSO and Swiss TPH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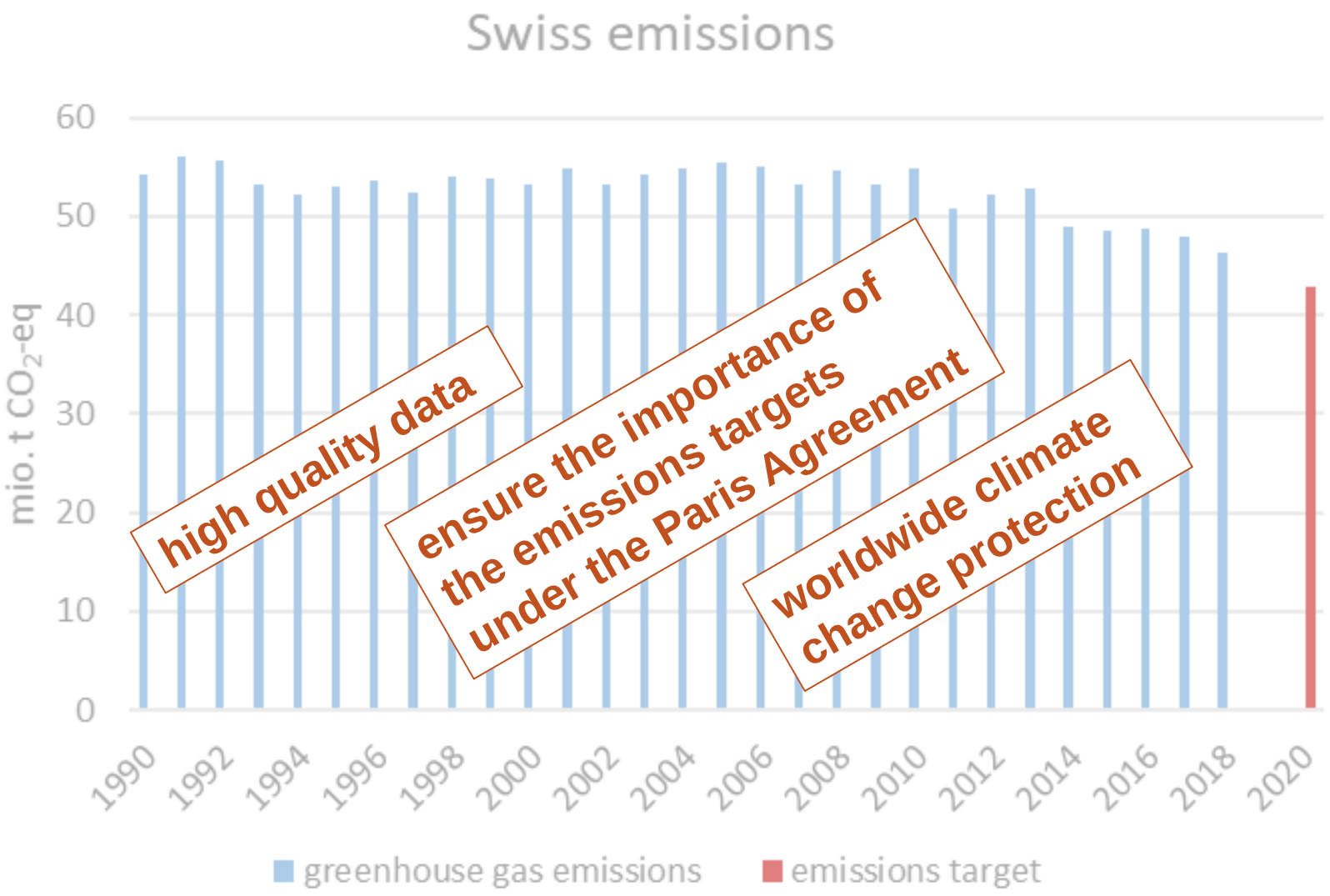
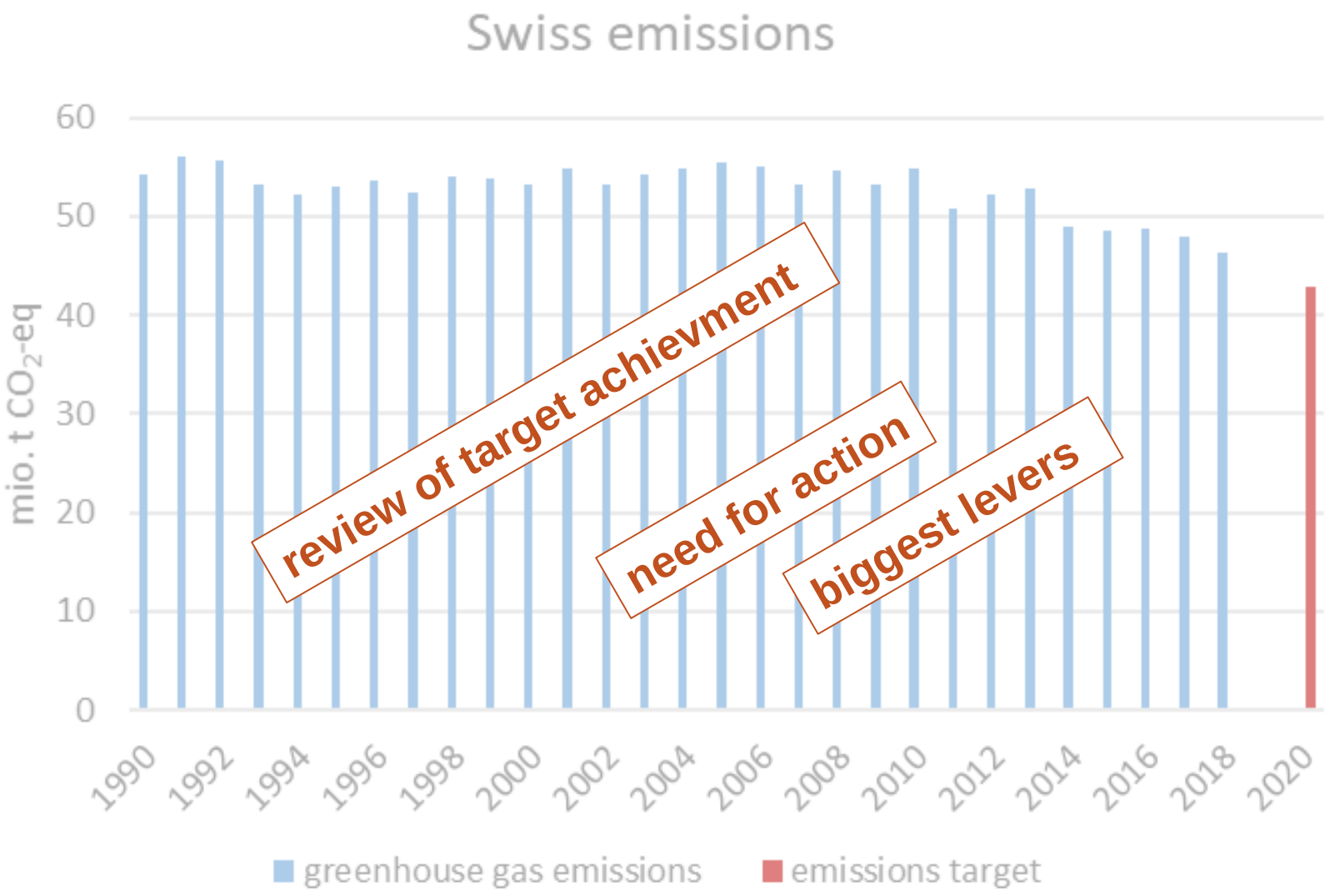
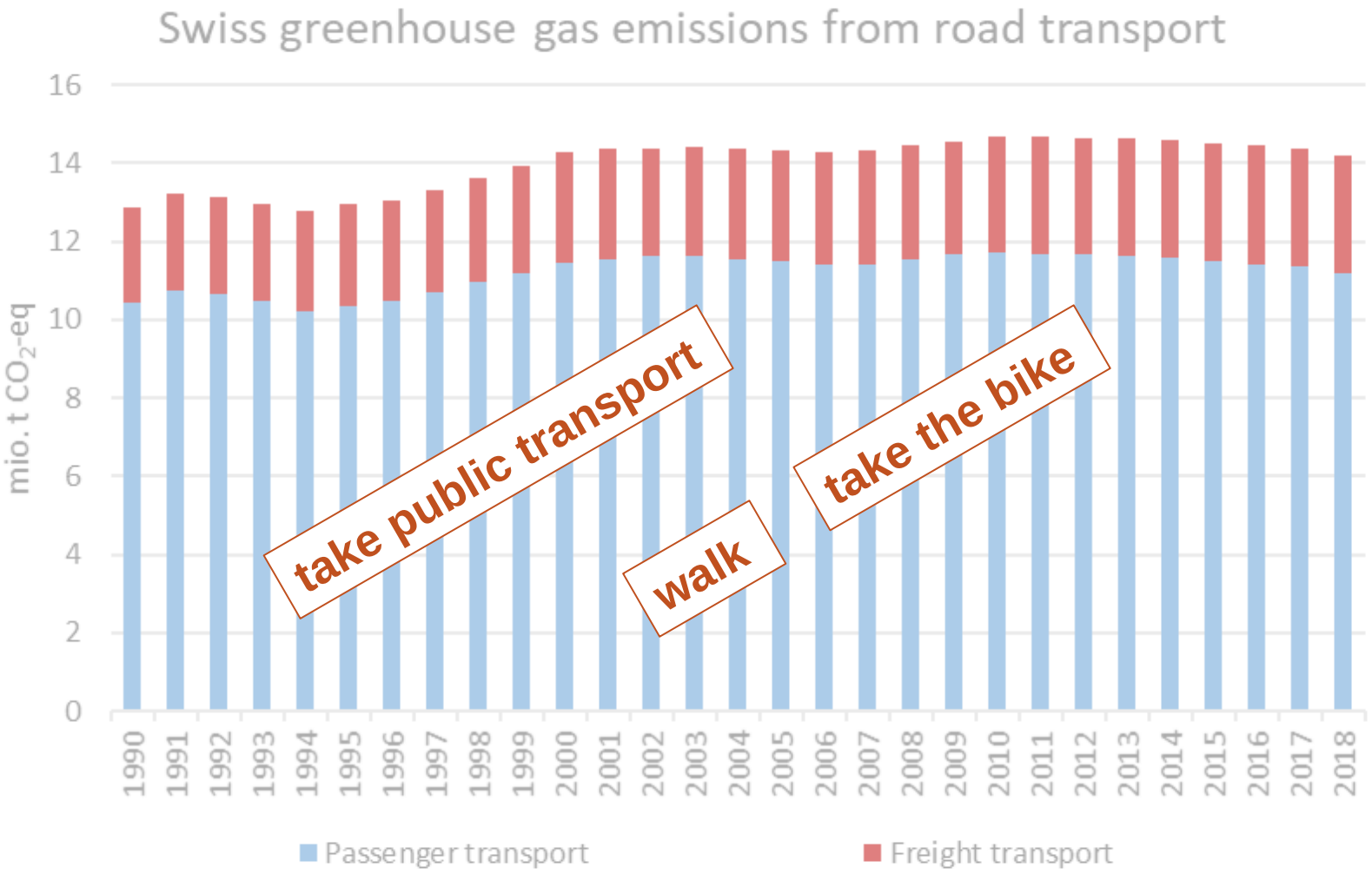

Swiss emissions
mio. t CO_2-eq
60
50
40
30
20
10
0
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018
2020
high quality data
ensure the importance of the emissions targets under the Paris Agreement
worldwide climate change protection
greenhouse gas emissions
emissions target

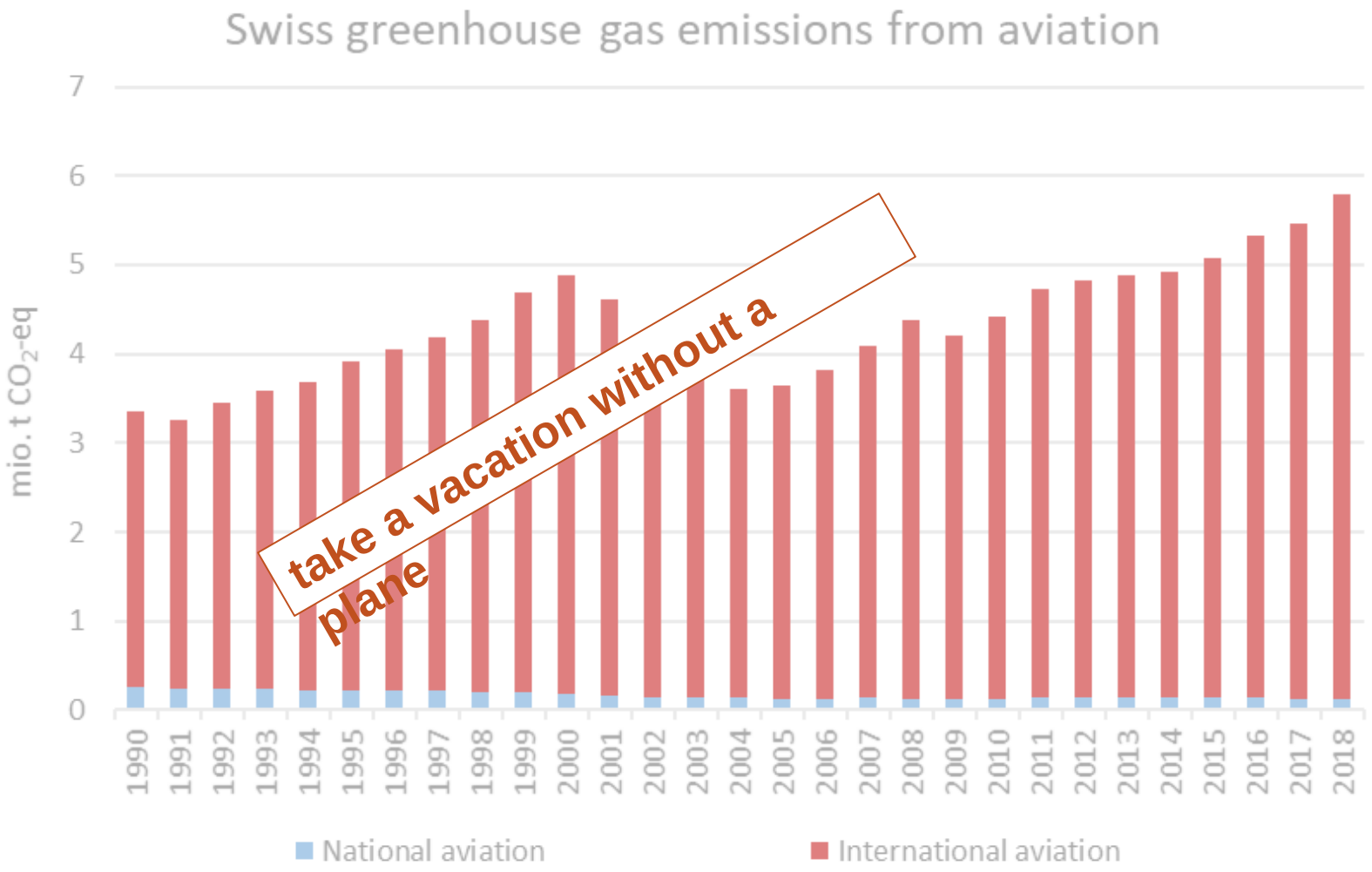
Source: FOEN


Swiss emissions
mio. t CO_2-eq
60
50
40
30
20
10
0
1990
1992
1994
1996
1998
2000
2002
2004
2006
2008
2010
2012
2014
2016
2018
2020
review of target achievment
need for action
biggest levers
greenhouse gas emissions
emissions target

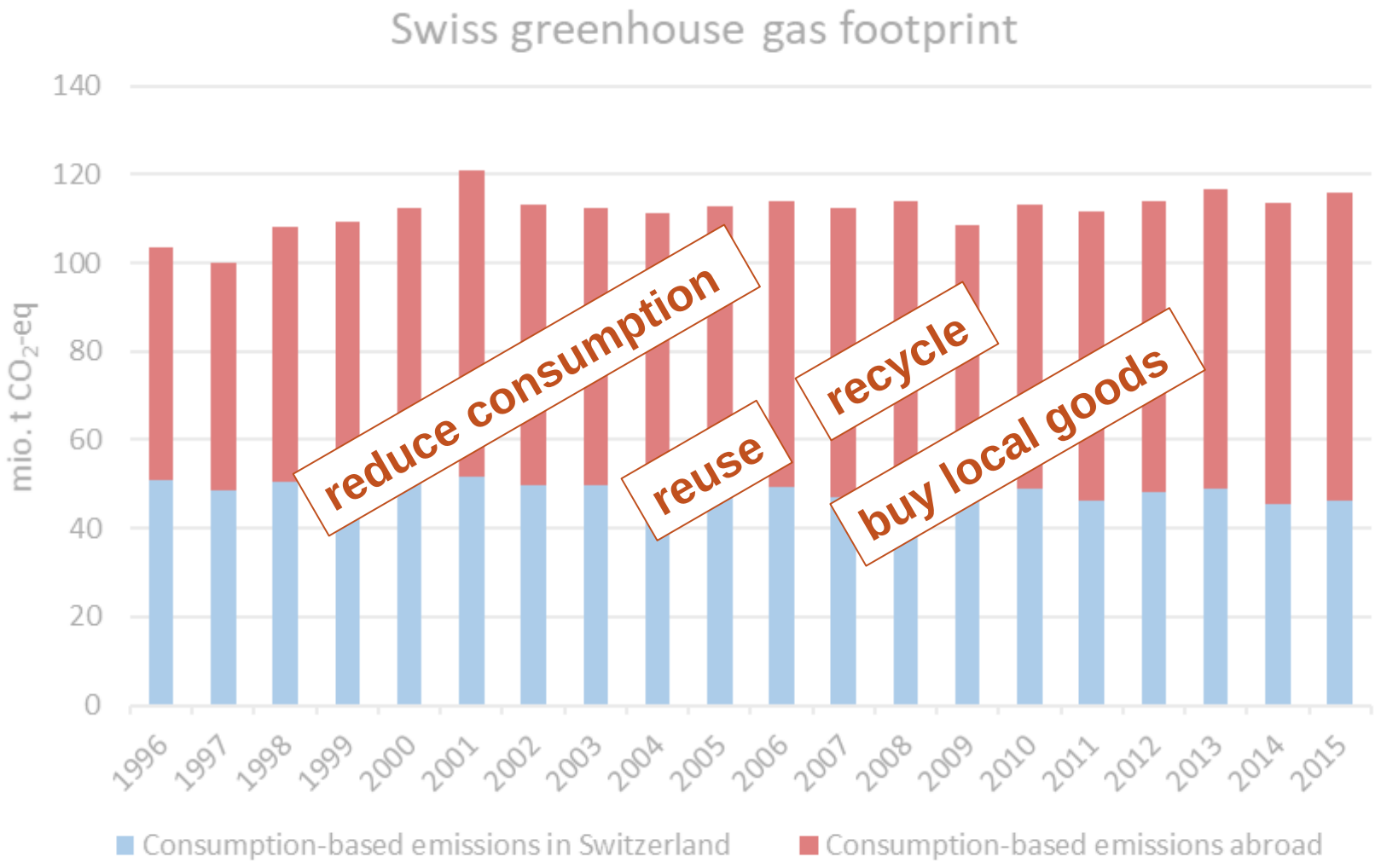
Source: FOEN


Swiss greenhouse gas emissions from road transport
mio. t CO_2-eq
16
14
12
10
8
6
4
2
0
1990
1991
1992
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
take public transport
walk
take the bike
Passenger transport
Freight transport

Source: FOEN

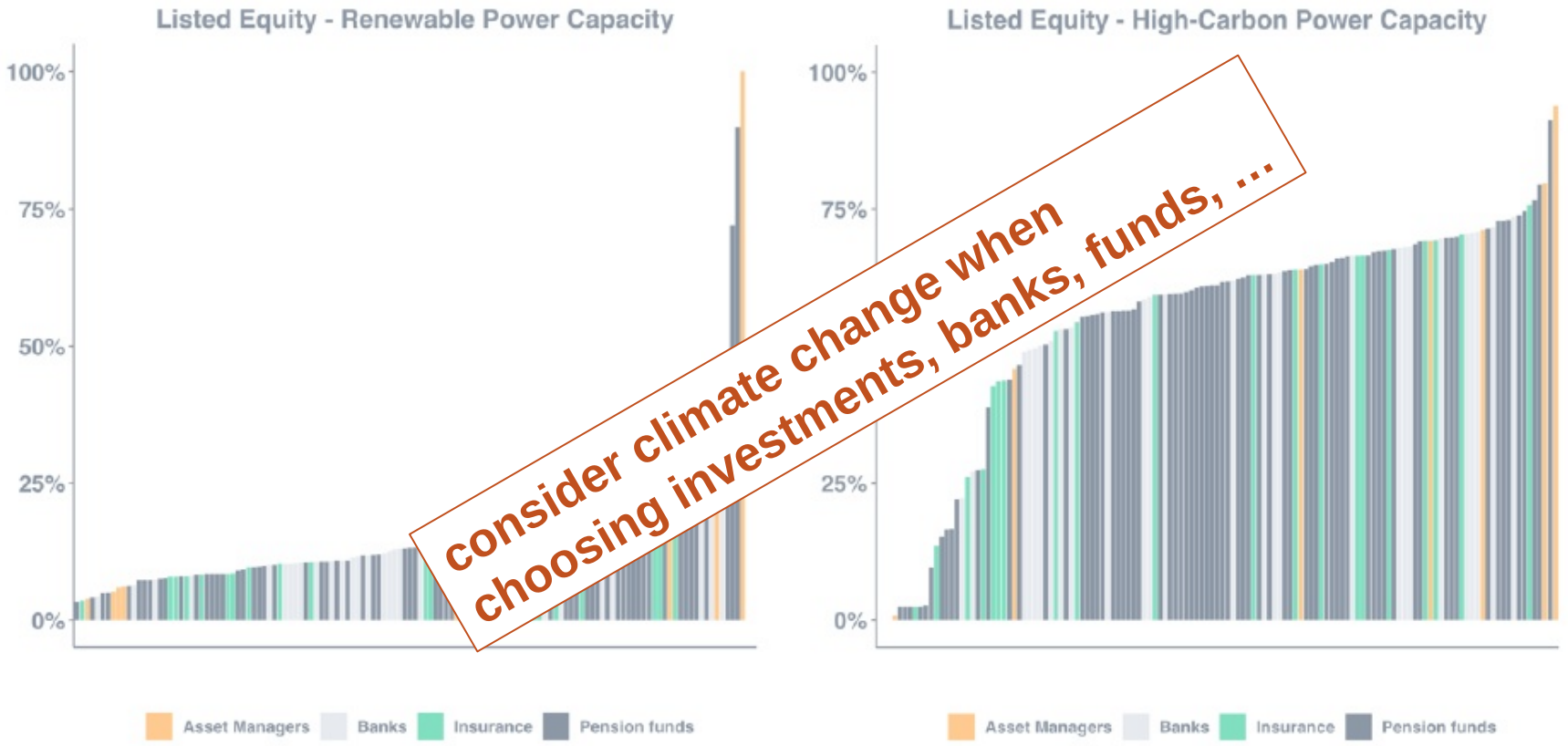

Swiss greenhouse gas emissions from aviation
mio. t CO_2-eq
0
1
2
3
4
5
6
7
1990
1991
1992
1993
1994
1995
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
2016
2017
2018
take a vacation without a plane
National aviation
International aviation

Source: FOEN


Swiss greenhouse gas footprint
mio. t CO_2-eq
140
120
100
80
60
40
20
0
1996
1997
1998
1999
2000
2001
2002
2003
2004
2005
2006
2007
2008
2009
2010
2011
2012
2013
2014
2015
reduce consumption
reuse
recycle
buy local goods
Consumption-based emissions in Switzerland
Consumption-based emissions abroad

Source: FOEN

Swiss financial market



Renewable and high-carbon technologies (without nuclear and hydropower) in the power sector as a share of the overall investments of the sector.

Source: 2° Investing Initiative

climate data
is essential for
climate protection

www.bafu.admin.ch/greenhouse-gas-inventory
www.nccs.ch

report: www.bafu.admin.ch/uz-2013-e