



# Covenant of Mayors Assessment Report 2021

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# CoM - development

2008



**Pillars & targets**

**Mitigation:** 20% CO<sub>2</sub> emissions reduction by 2020

2014



**Pillars & targets:**

**Adaptation:** increase resilience

2015



**Pillars & targets:**

**Mitigation:** 40% CO<sub>2</sub> emissions reduction by 2030

**Adaptation:** increase resilience

2016



**Pillars & targets:**

**Mitigation:** CO<sub>2</sub> emissions reduction by 2030 as NDC

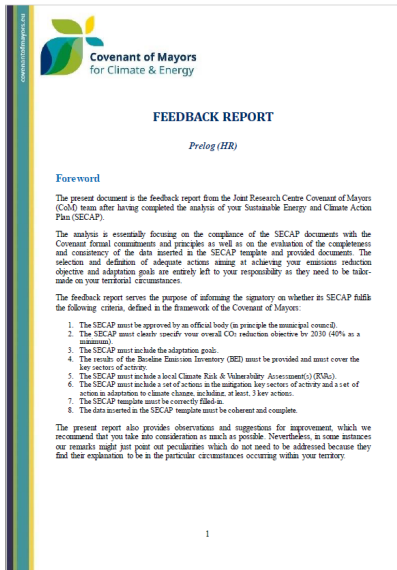
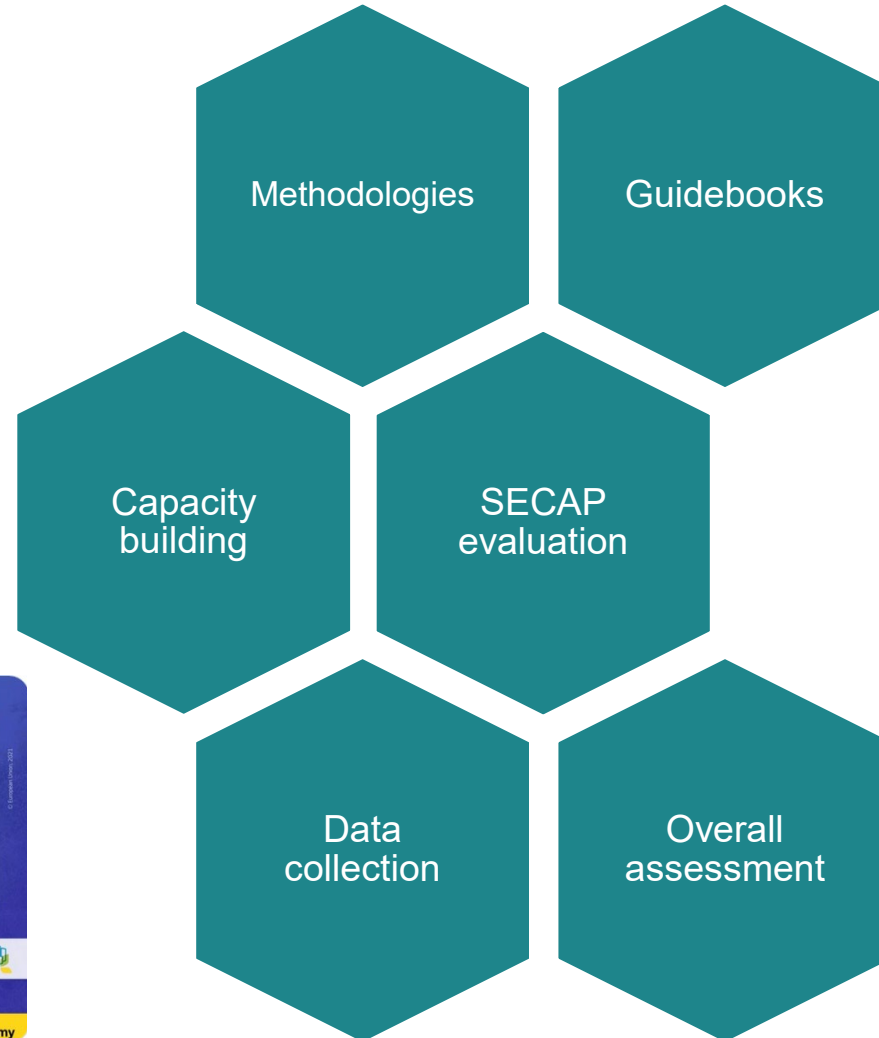
**Adaptation:** increase resilience

**Energy Access/Poverty**

# A bit of history

- 2008: Launch of the EU CoM
- 2010: Publication of the first SEAP guidebook and reporting template
- 2011-2012: Launch of CoM East and CES-MED
- 2015: Integration of the adaptation pillar into the EU CoM
- 2016: The EU CoM joins forces with the Compact of Mayors, creating the **Global Covenant of Mayors for Climate and Energy**
- 2019: The GCoM introduces the **Common Reporting Framework (CRF)**, allowing cities across the world to use one standardised approach to sharing information on their climate activities.
- → [MyCovenant](#) is one of the officially recognised reporting platforms

# Role of JRC in the Covenant

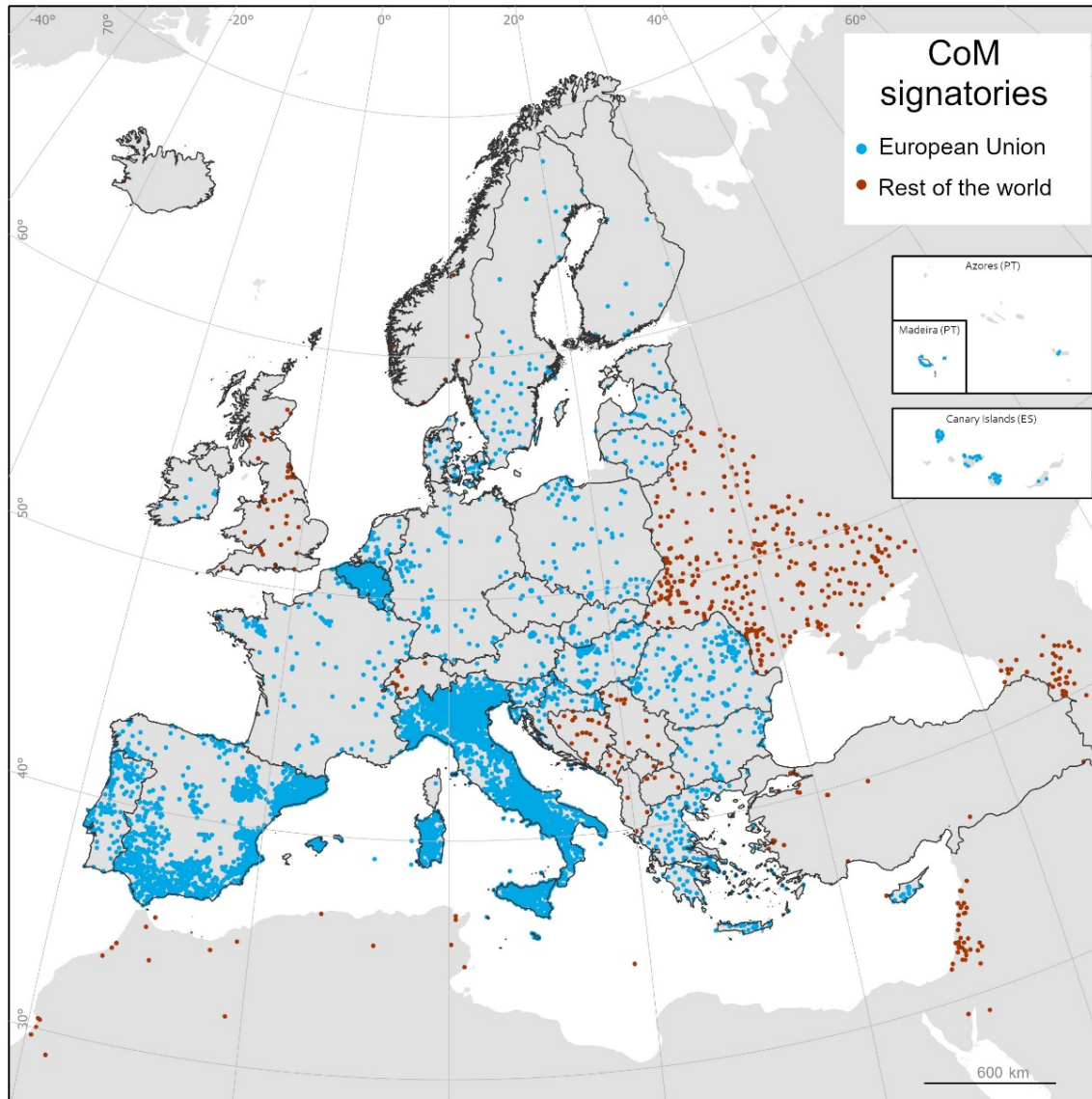


# Signatories

- **10,629** cities and local authorities registered through MyCovenant reporting platform, covering more than **328** million inhabitants
- Out of those 10,629:
  - 1,571 have joined as groups (committing either individually or collectively to the CoM targets)
  - **1,354** were suspended for not complying with their CoM commitments

Area	No. of signatories	Population
European Union	9,858	217,395,470
Eastern Partnership (CoM-East)	480	32,634,542
Europe - Non EU	159	34,395,019
Southern Mediterranean (CoM-South)	78	8,476,388
Rest of the world	54	35,541,384
<b>Total</b>	<b>10,629</b>	<b>328,442,803</b>

# Signatories

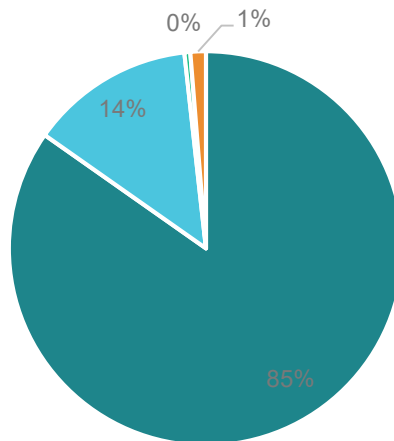


- **93%** of the signatories come from the EU-27
- **1 EU citizen out of 2** lives in a city or town committed to the CoM

# Action plans

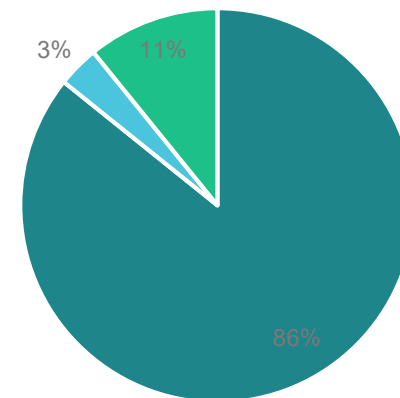
- **6,839** organisations submitted their Action plans:
  - 5,796 covering only mitigation
  - 923 covering both pillars (mitigation + adaptation)
  - 33 covering only adaptation
  - *87 were excluded from the sample due to data completeness/consistency issues*

Action plans by pillar



■ Mitigation only ■ Mitigation & Adaptation ■ Adaptation only ■ Removed from the sample

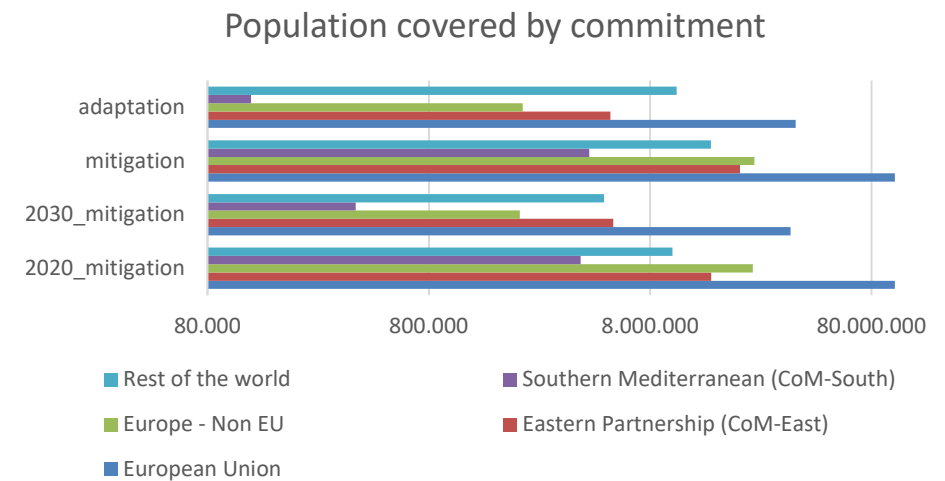
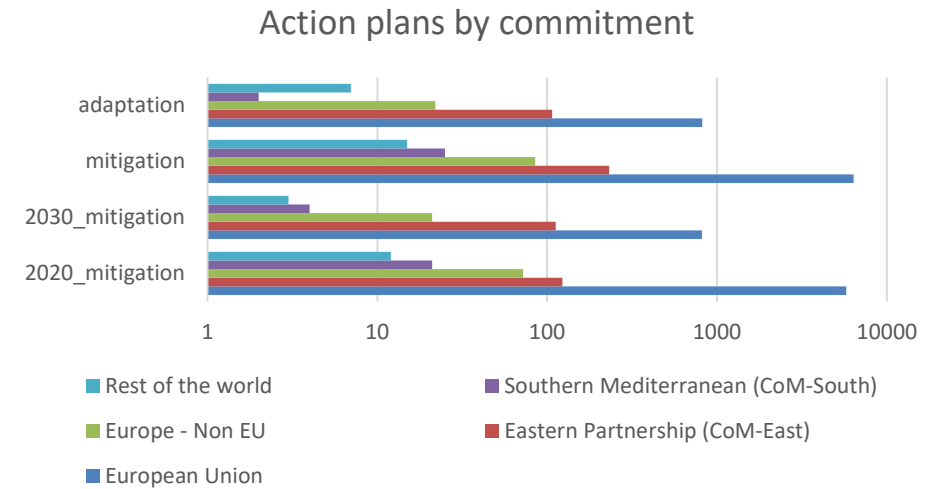
Action plans by mitigation target year



■ 2020 target only ■ 2020 and 2030 target ■ 2030 target only

# Action plans

No. of Action plans	No. of action plans	Population covered
European Union	6,470	174,277,110
Eastern Partnership (CoM-East)	236	23,213,307
Europe - Non EU	91	24,168,017
Southern Mediterranean (CoM-South)	25	4,250,254
Rest of the world	17	15,934,427
<b>Total</b>	<b>6,839</b>	<b>241,843,115</b>

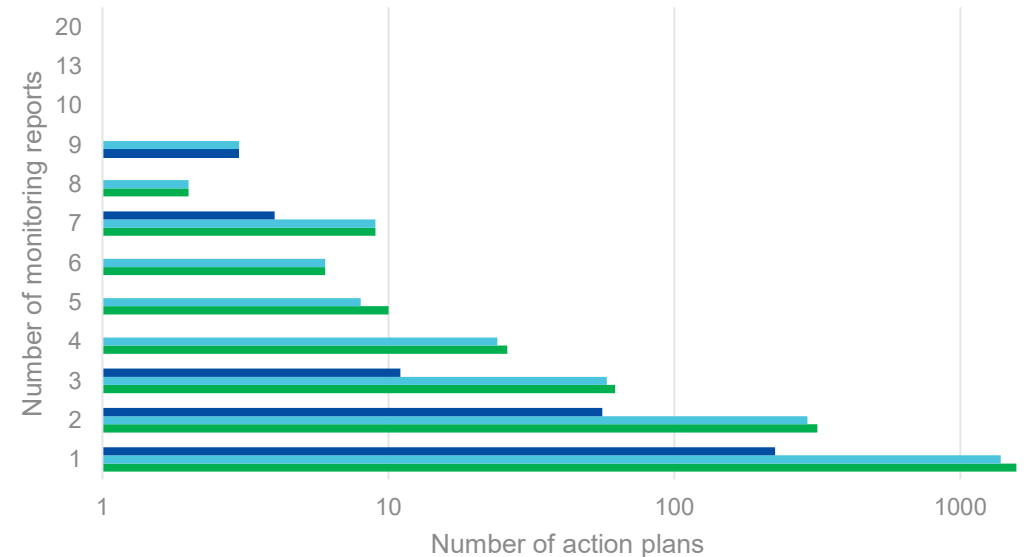


# Monitoring reports

- Out of 6,839 organisations with a submitted Action plan:
  - **2,602** have also submitted at least one monitoring report
  - *2,486 associated with a 2020 AP*
  - *270 associated with a 2030 AP*

Area	No. of APs with at least one monitoring report
European Union	2,520
Eastern Partnership (CoM-East)	60
Europe - Non EU	18
Southern Mediterranean (CoM-South)	1
Rest of the world	3
<b>Total</b>	<b>2,602</b>

Frequency of monitoring reports



■ Number of 2030 action plans ■ Number of 2020 action plans ■ Overall number of plans

# Committed reduction

by 2020

Area	Baseline emissions (Mt CO <sub>2</sub> eq)	Targeted emissions in 2020 (Mt CO <sub>2</sub> eq)	Overall reduction target
European Union	798.5	587.7	26%
Eastern Partnership (CoM-East)	62.3	49.0	21%
Europe - Non EU	71.4	50.8	29%
Southern Mediterranean (CoM-South)	8.2	6.5	20%
Rest of the world	25.9	24.2	7%
<b>Total</b>	<b>966.2</b>	<b>718.2</b>	<b>26%</b>

based on **5,967** action plans, covering **198** million inh. in baseline year

by 2030

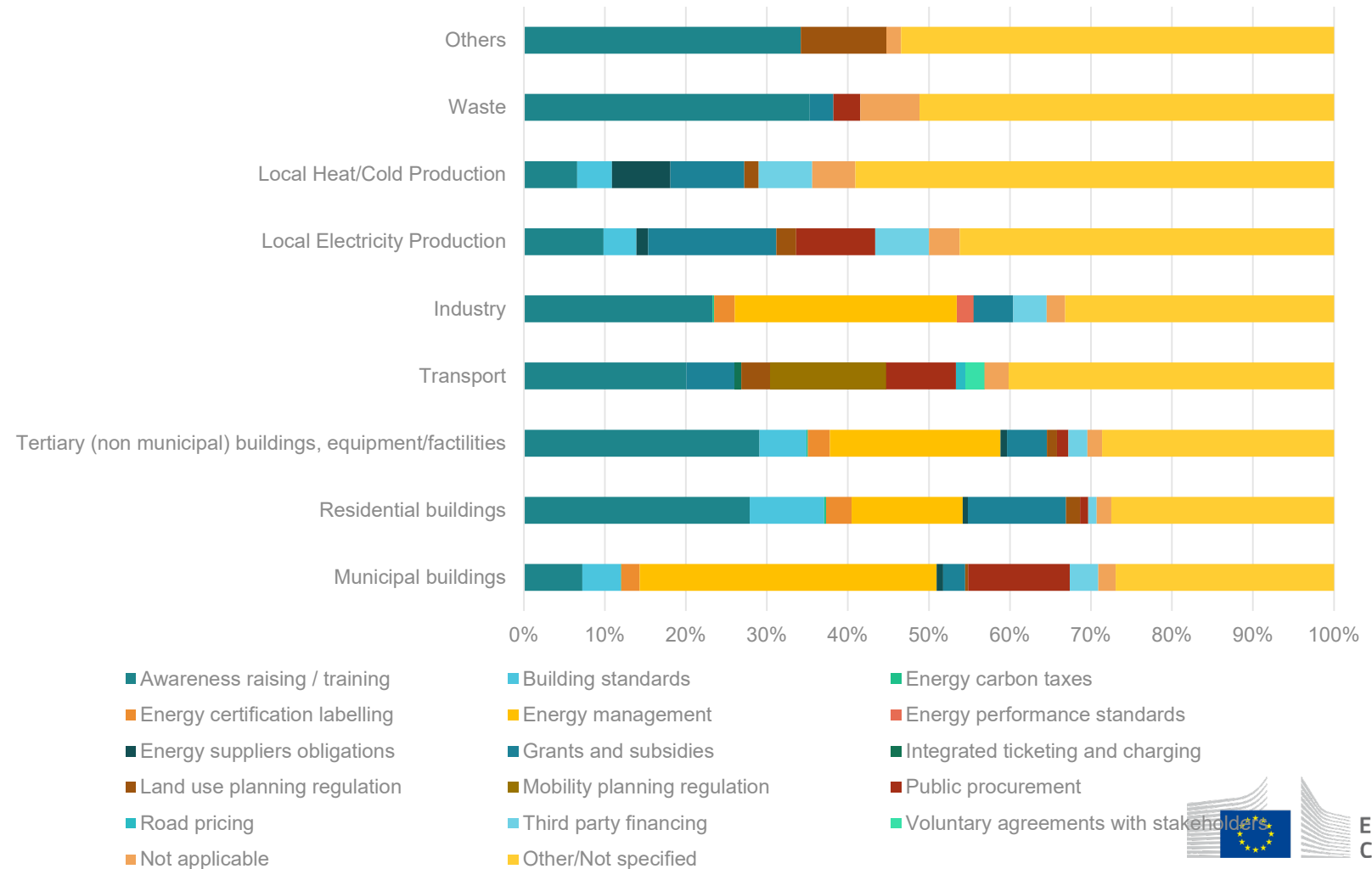
Area	Baseline emissions (Mt CO <sub>2</sub> eq)	Targeted emissions in 2030 (Mt CO <sub>2</sub> eq)	Overall reduction target
European Union	178.2	95.3	47%
Eastern Partnership (CoM-East)	17.1	11.7	32%
Europe - Non EU	2.9	1.4	50%
Southern Mediterranean (CoM-South)	0.9	0.5	40%
Rest of the world	13.5	9.0	33%
<b>Total</b>	<b>212.6</b>	<b>118.0</b>	<b>44%</b>

based on **952** action plans, covering **45** million inh. in baseline year

# Mitigation actions

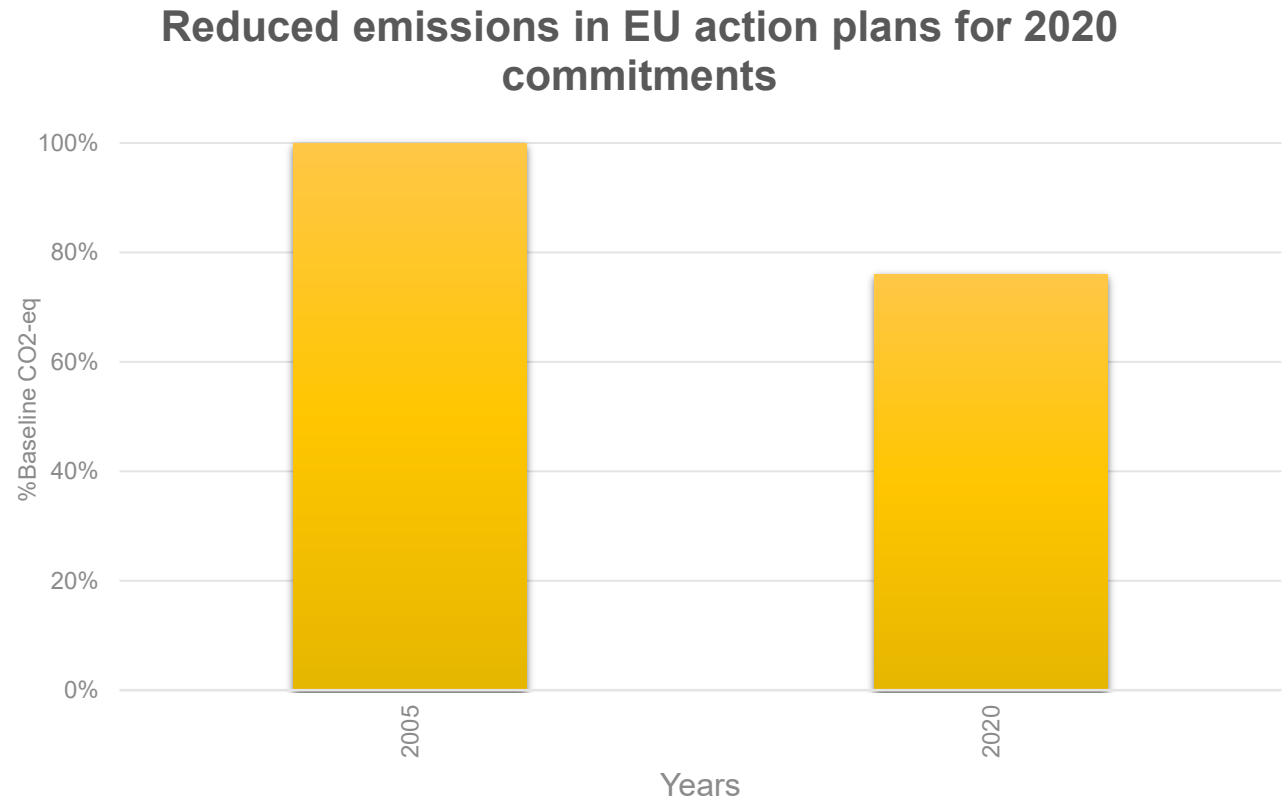
The action plans analysed contain almost **183,000** mitigation actions, with different policy instruments

Mitigation actions by sector and type of instrument



# Achievements EU – Emissions reduction

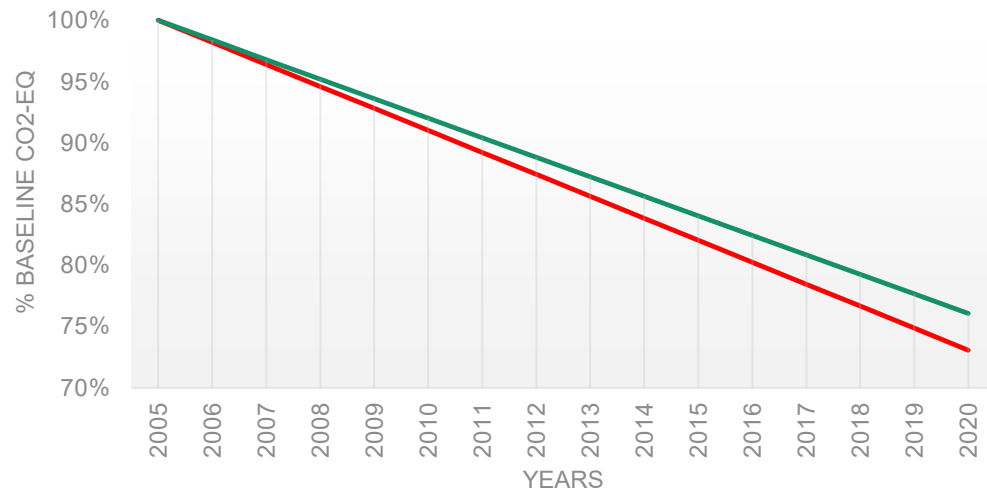
- From 2005 to 2020, cities achieved an estimated **23.94% reduction** in the volume of their emissions inventories.



# Achievements EU – 2020 & 2030 commitments

- For **2020**, cities committed to reducing their emissions by **26%**, accomplishing a **24% reduction**.

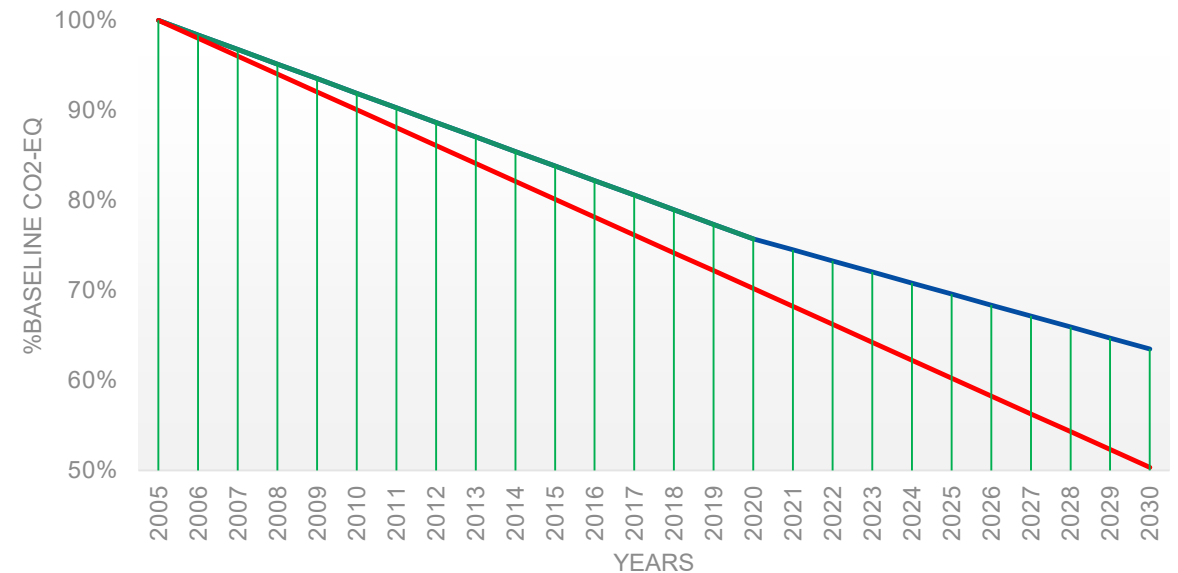
Trajectories of the 2020-targets and estimated emissions for EU action plans



— Targeted — Estimated

- For 2030, cities committed to reducing their emissions by **47%**, and they are expected to accomplish a **36.5% reduction**.

Trajectories of forecasted emissions and 2030 targets in EU action plans

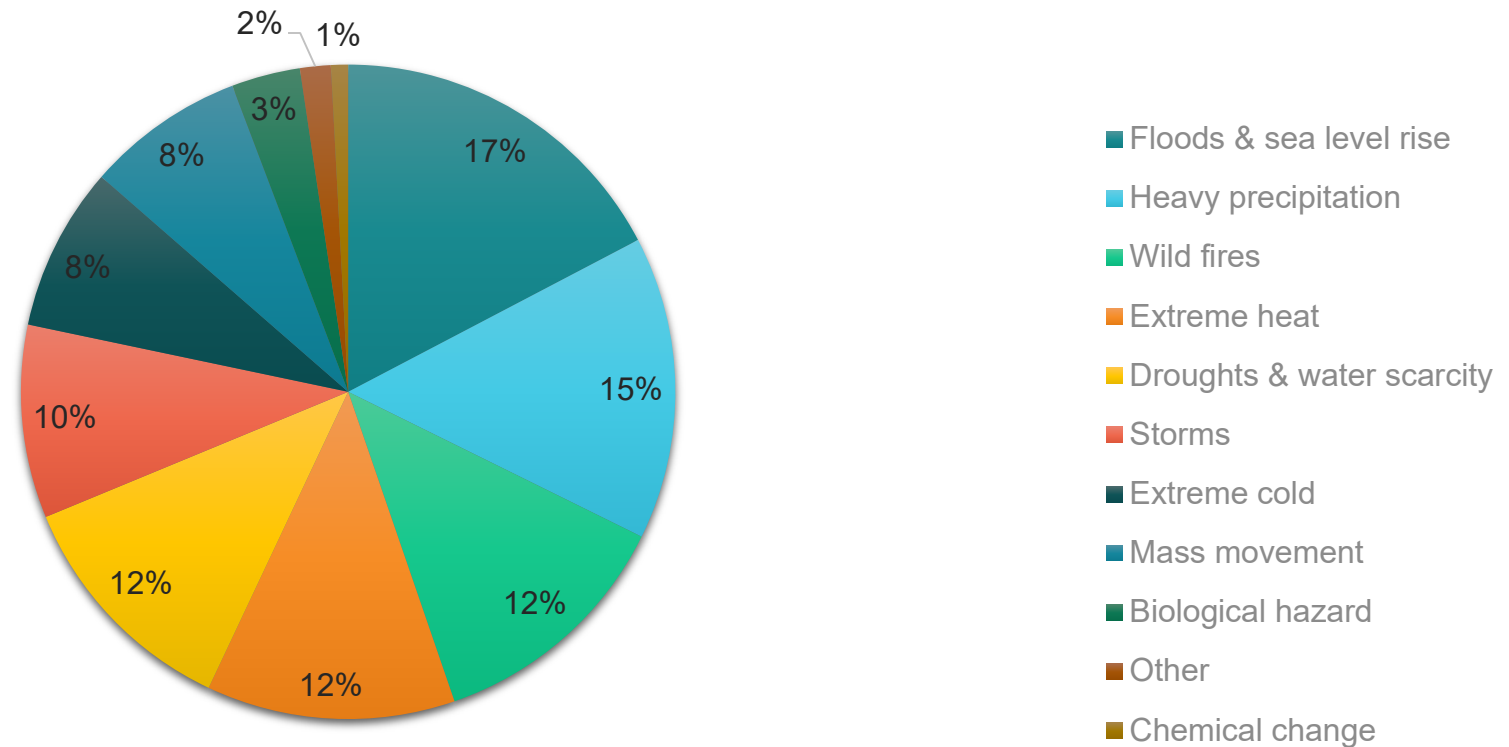


— Forecast — Estimated — Targeted

# Adaptation Pillar in MyCovenant

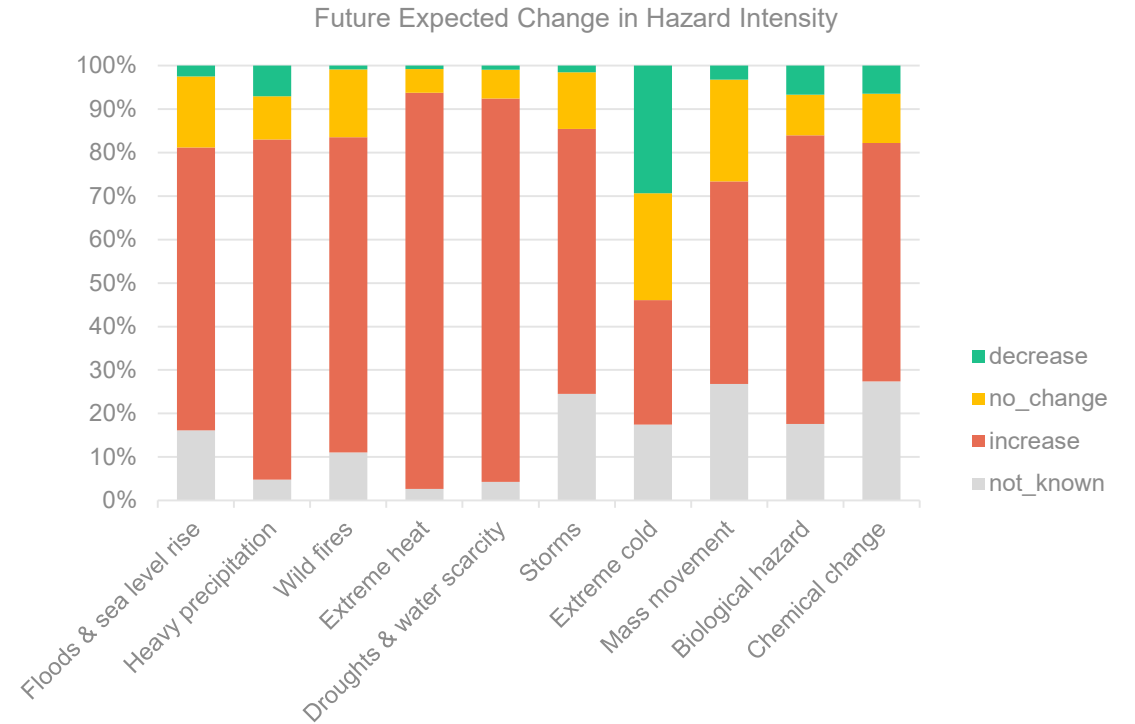
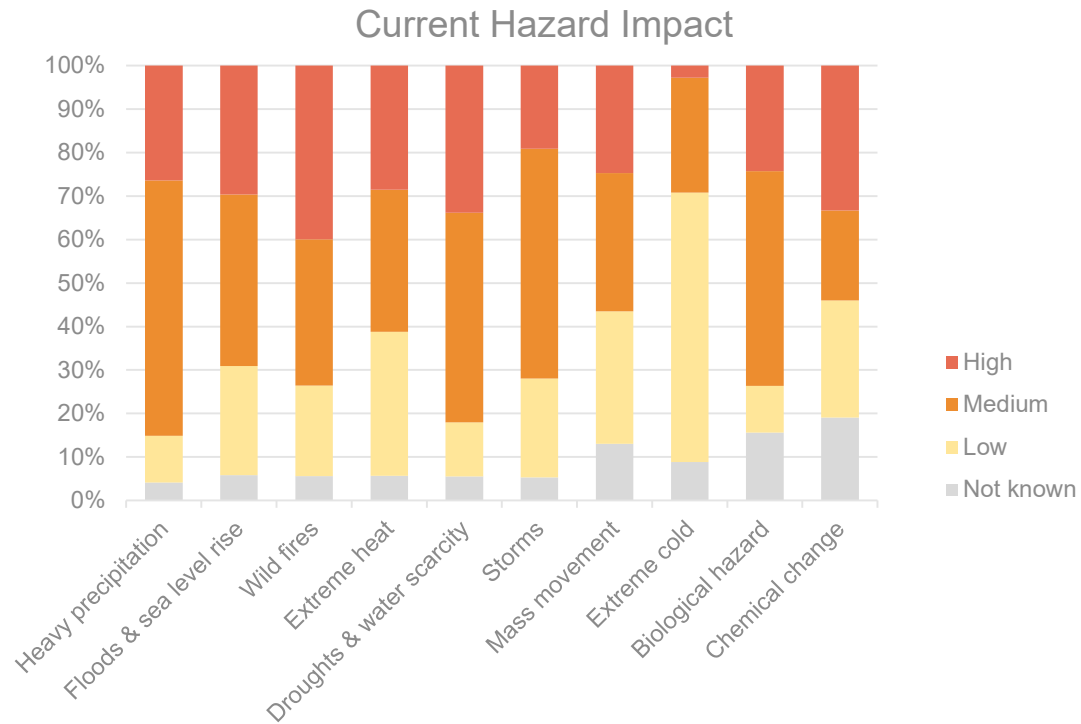
- **3,942** signatories committed to adaptation (**37%** of CoM signatories)
  - 2,7% committed to adaptation only (Mayors Adapt), 98,3% committed to adaptation with the 2030 commitment
  - 3,515 expected action plans (81 coming from groups covering multiple signatories)
- **956** submitted adaptation action plans (**27%** of expected plans)
  - 852 (89%) action plans include a “Risk & Vulnerability Assessment”
  - 427 (45%) action plans include “Adaptation Goals”
  - 484 (51%) action plans include “Adaptation Actions”

# RVA: Most reported Hazards



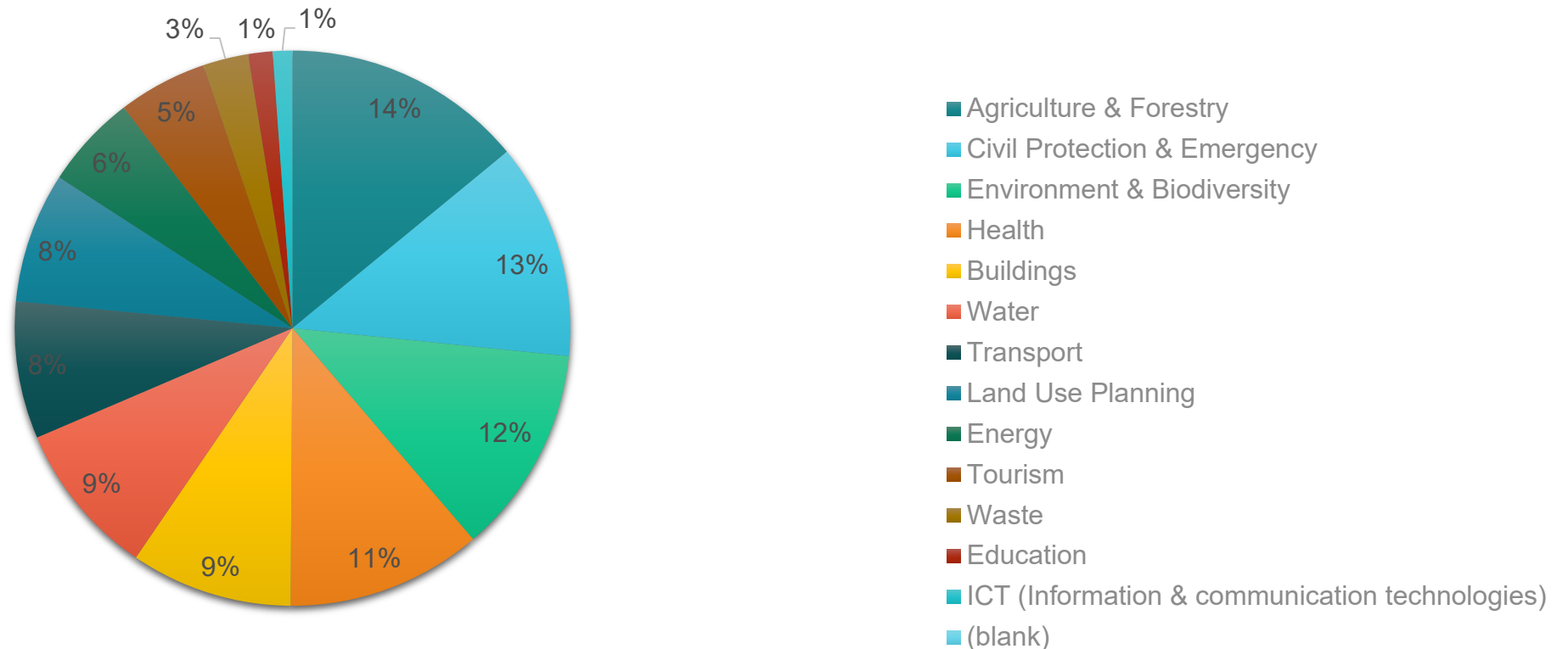
- Most reported Climate Hazards are:
  - “Floods & Sea level rise” (17%), “Heavy precipitation” (15%), “Wild fires” (12%), “Extreme heat” (12%) and “Droughts & Water scarcity” (12%)

# RVA: Most reported Hazards



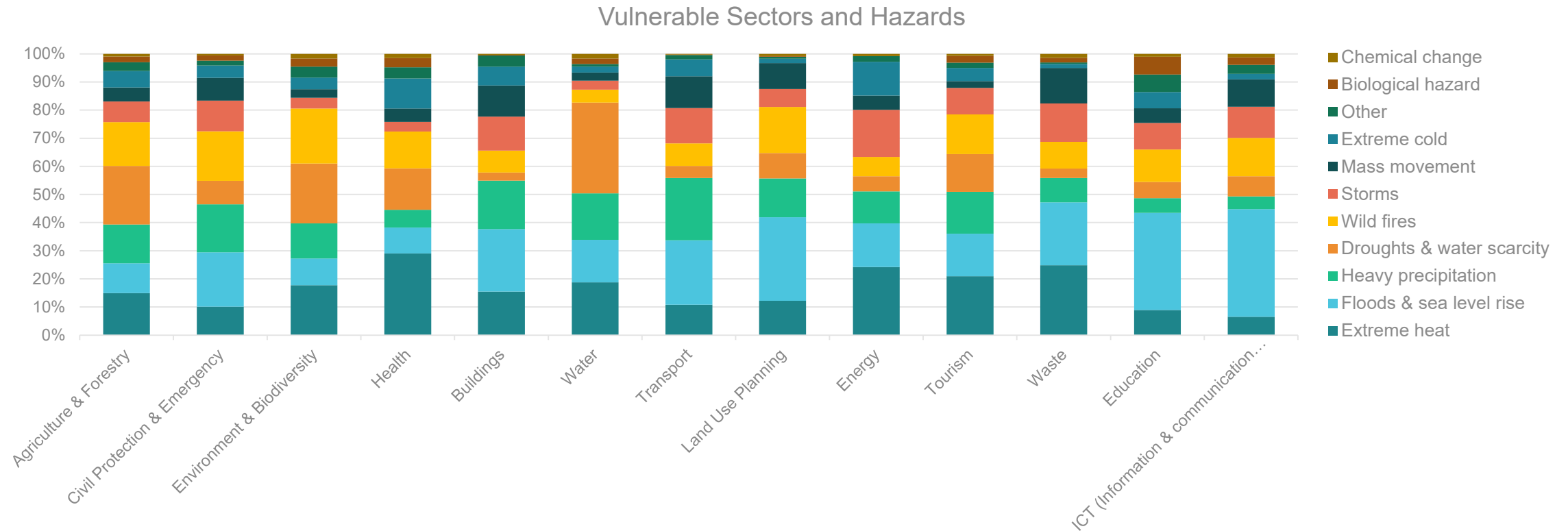
- “Extreme cold” is reported with the current lowest impact, and is expected not to change or to decrease in intensity
- All the other climate hazards are showing predominantly **high/medium impact** and with expected **increase in intensity**

# RVA: Most reported vulnerable Sectors



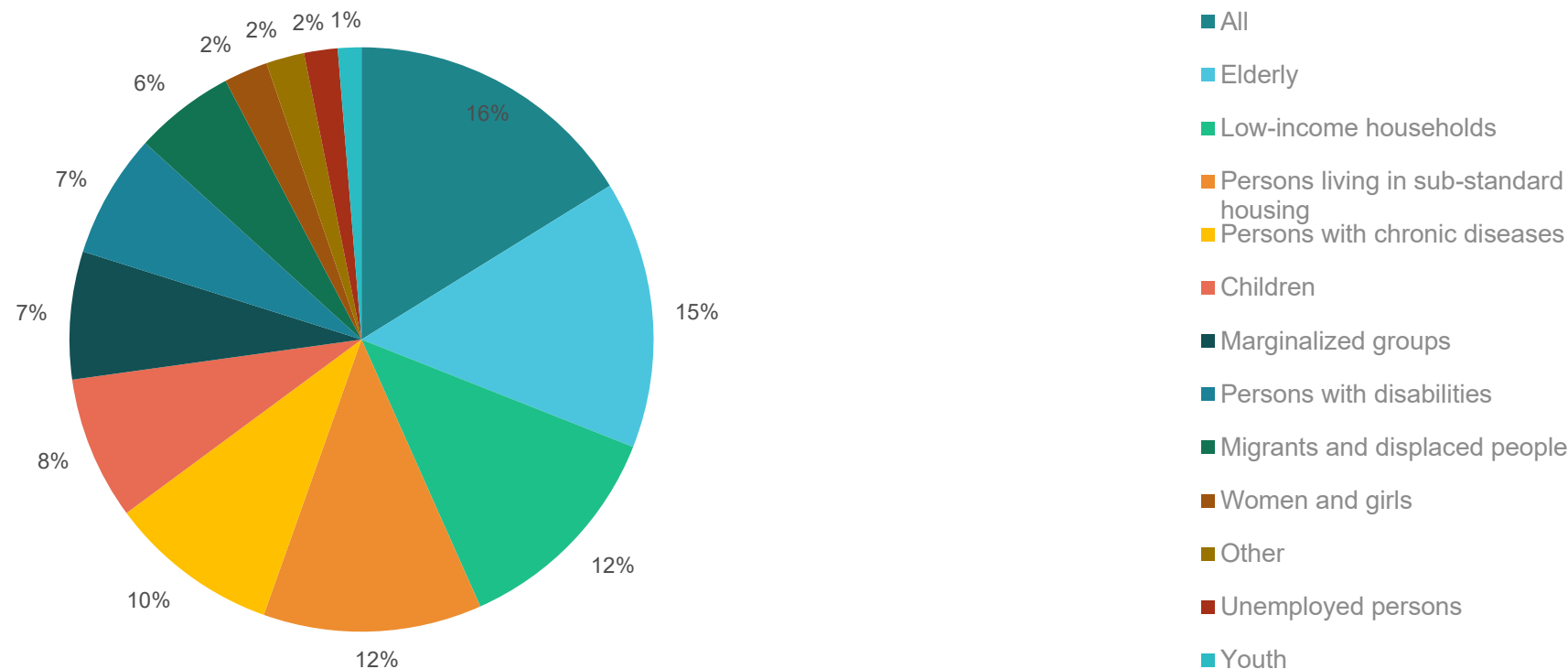
- Most reported vulnerable sectors are:
  - Agriculture & Forestry (14%), Civil protection & Emergency (13%), Environment & Biodiversity (12%)

# RVA: Sectors vulnerable to Hazards



- Agriculture & Forestry is reported as most vulnerable to “Droughts & Water scarcity”
- Civil protection & Emergency is reported as most vulnerable to “Floods & Sea level rise”
- Environment & Biodiversity is reported as most vulnerable to “Droughts & Water scarcity”

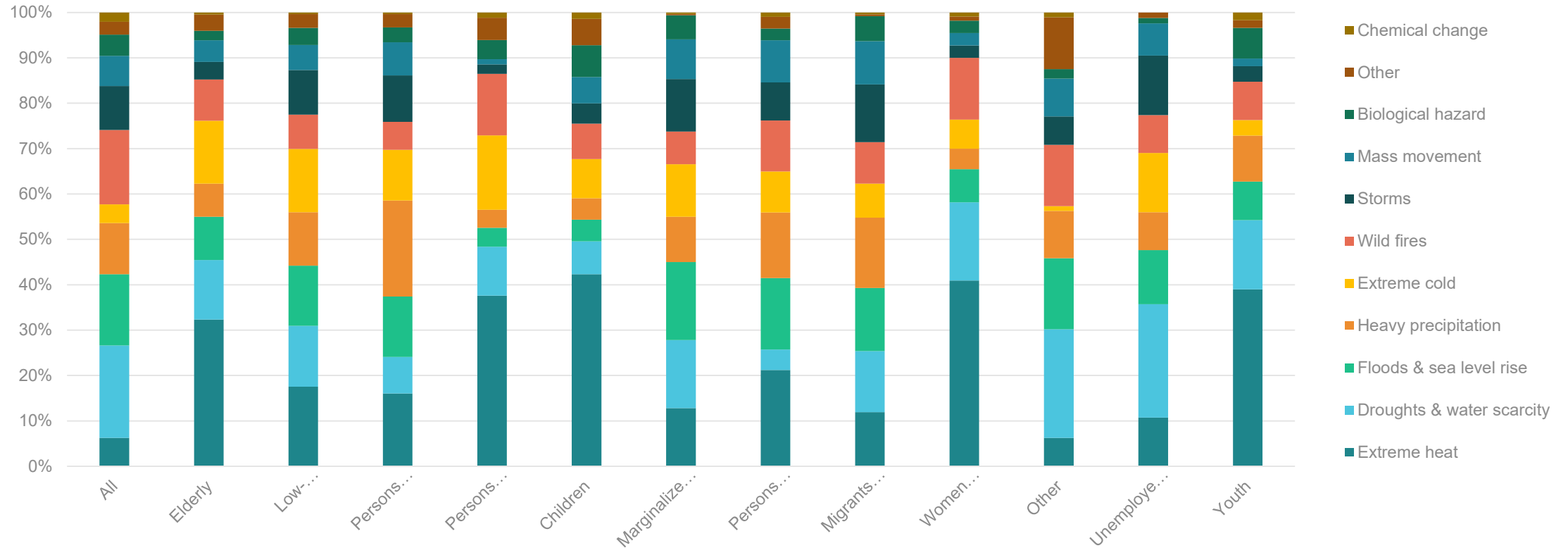
# RVA: Most reported Vulnerable Population Groups



- Most reported vulnerable population groups:

- All (16%), Elderly (15%), Low-income households (12%), Persons living in sub-standard housing (12%)

# RVA4: Vulnerable Population Groups

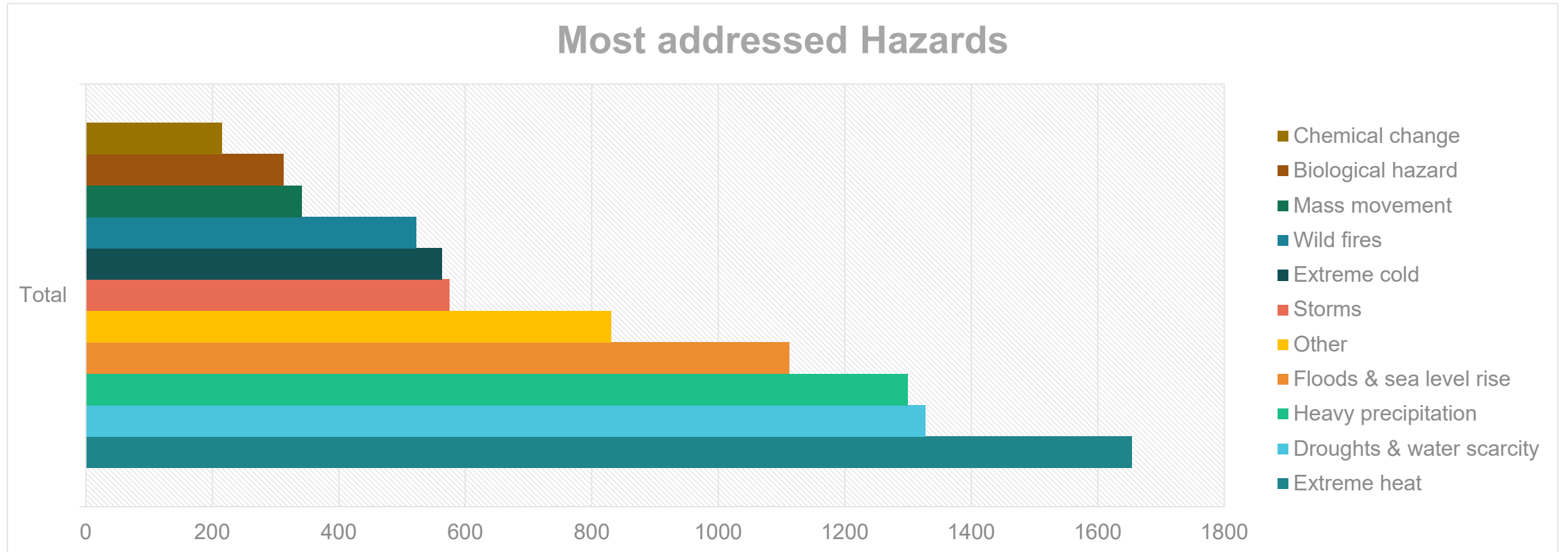


- Elderly are reported as most vulnerable to “Extreme heat”
- Low-income households are reported as most vulnerable to “Extreme heat” and “Extreme cold”
- Persons living in sub-standard housing are reported as most vulnerable to “Heavy precipitation”

# Adaptation Actions

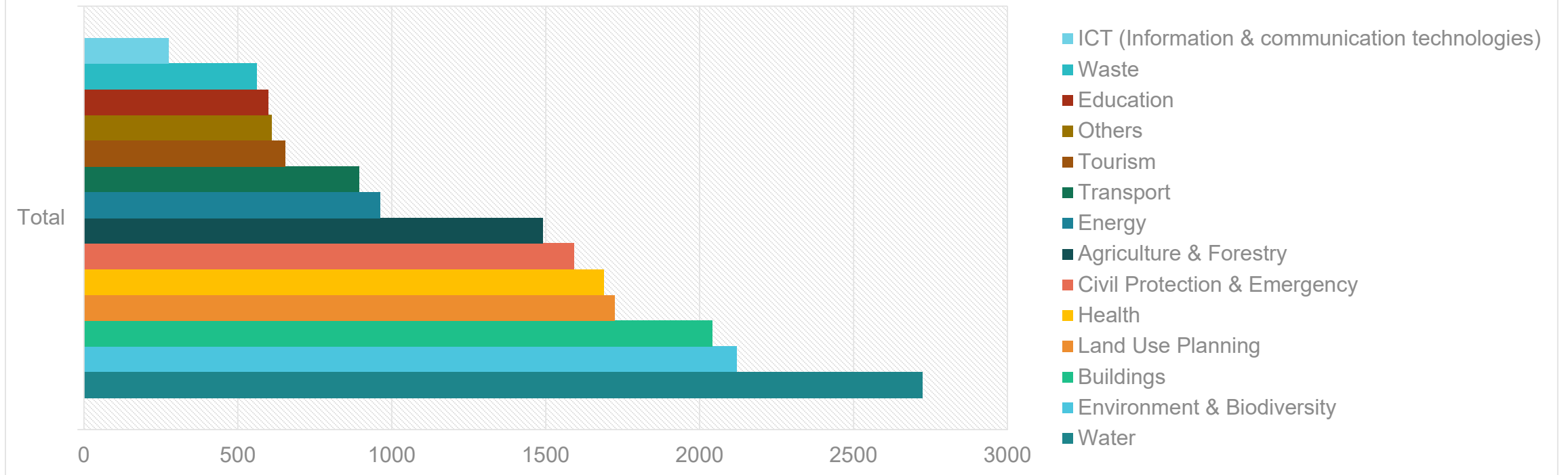
- More than **10,000** detailed adaptation actions reported (from 854 action plans)
  - **16%** are reported as “mitigation + adaptation” actions
- Adaptation actions reported:
  - Most addressed hazards are: “Extreme heat”, “Droughts & Water scarcity”, “Heavy precipitation”
  - Most targeted sectors are: “Water”, “Environment & Biodiversity”, “Buildings”
  - Most targeted population groups are: “All”, “Children”, “Elderly”
- **530** monitoring reports with information on adaptation
  - **5,535** (51%) adaptation actions reported as completed or ongoing

# Adaptation Actions



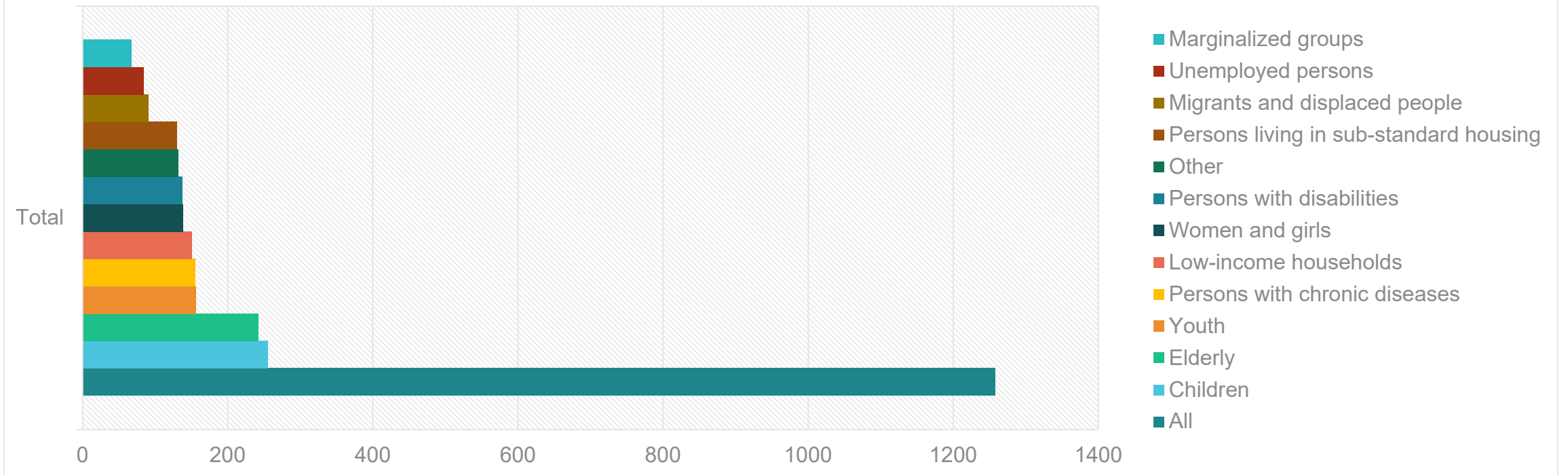
# Adaptation Actions

## Most targeted Vulnerable Sectors



# Adaptation Actions/Policies

Most targeted vulnerable population groups



# Conclusions

The SECAPs adopts integrated planning approaches allowing identifying complementarities and developing synergies with other planning instruments and policies.

Great variety of options included in the policies - key role of local governments in contributing to the mitigation and adaptation framework with experimental and innovative approaches and local specificities' concern.

Synergies between actions and sectors within the plan can enhance successful outcomes, avoid maladaptation and strengthen the framework for original solutions.

The number of positively evaluated plans shows that there is room for improvement and imperativeness of concrete actions.

# Thank you



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