

European Climate Change Education Survey: Preliminary Findings

UN CLIMATE CHANGE CONFERENCE: CHILE COP 26

2 – 13 DECEMBER 2019, MADRID



OUR PRIORITIES



ALLEA's Science Education Working Group

- Support the further progression of science education throughout Europe
- Ensure students and young people
 - Develop requisite knowledge, skills and motivation to become active citizens and to pursue science careers
 - Experience engaging and relevant science education
 - Truly value science and care for their environment



Climate Change Education (CCE)

Importance of CCE

Numerous CCE initiatives throughout Europe

- Educational resources, Professional Development, Conferences

Dearth of documentation detailing initiatives

- Overall aims and content
- Target audiences
- Supports available for teachers
- Government or non-government organisations
- European, National or local level



Climate Change Education Survey

Survey

Piloted 4 countries (Denmark, France, Ireland, Sweden)

Dissemination

ALLEA to all 58 science academies

- Relevant units in academies / universities / educational providers / other
- Gathering information on local, regional, national CCE initiatives
- Not specifically asked to target public or private institutions or a particular target age level (primary, post primary or tertiary levels).

Global Young Academy

ALLEA website

ALLEA newsletter

Twitter



Climate Change Education Survey

Survey Responses

67 responses from 14 countries

Analysis

Descriptive statistics: To identify patterns and averages

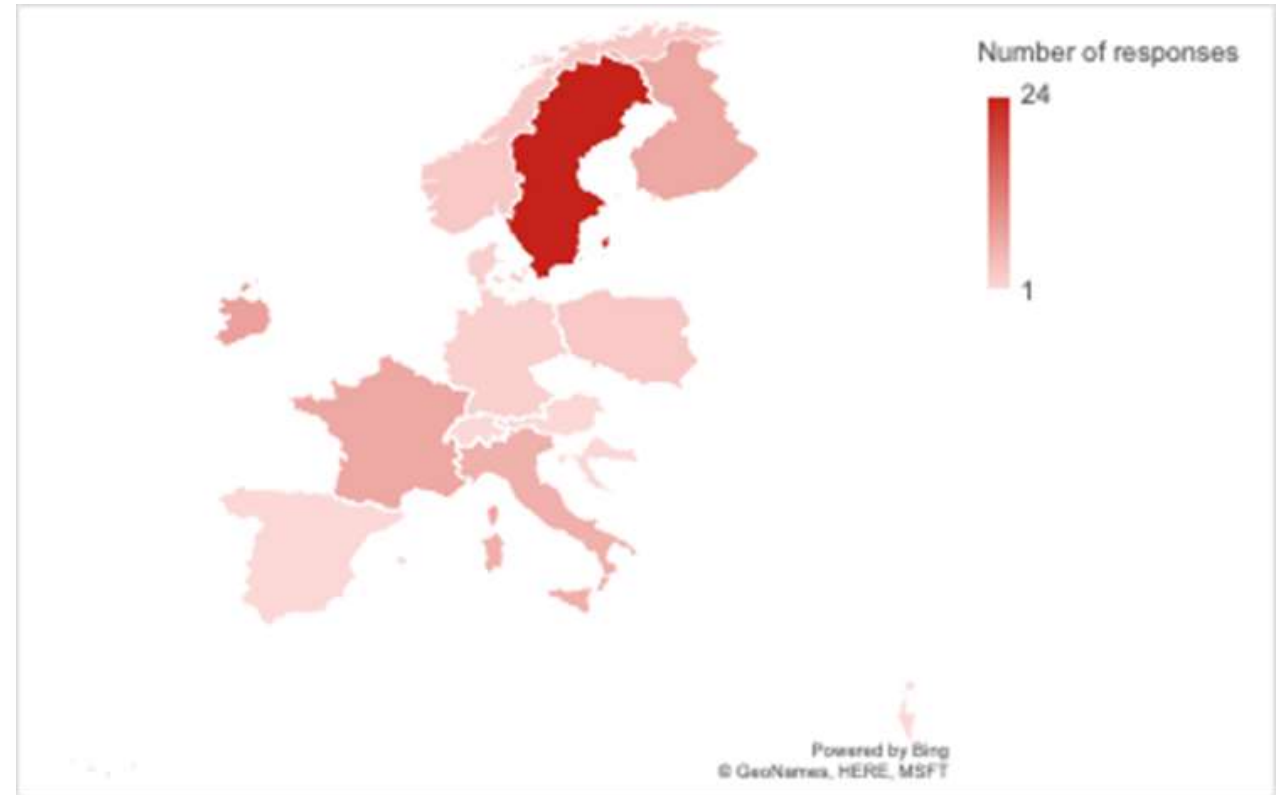
Content analysis: Explore main themes across open ended responses



Organisation

A total of 67 responses from 14 countries (*Austria, Croatia, Denmark, Finland, France, Germany, Ireland, Israel, Italy, Norway, Spain, Sweden & Switzerland*)

Figure shows the participating countries in the survey and the total number of responses received from each country.



Organisation

20 HEI

19 NGO

9 Government organisations

7 National academies

2 International organisations.

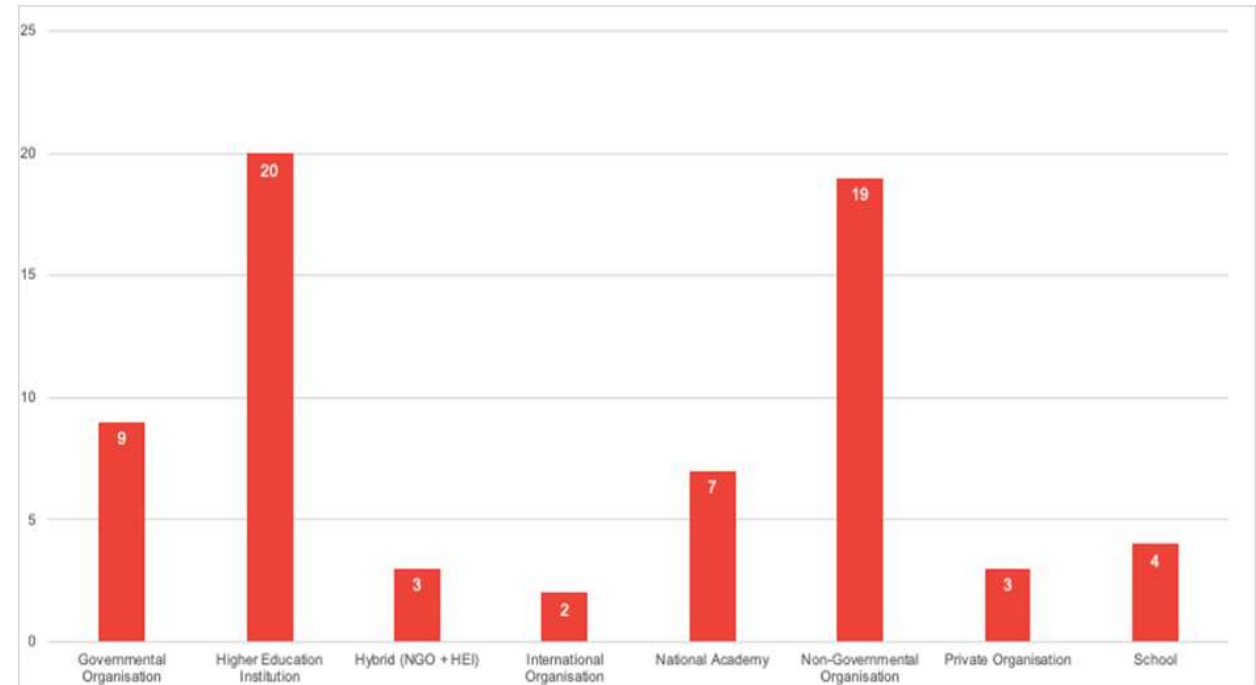
4 schools

Early years (1- 6 years)

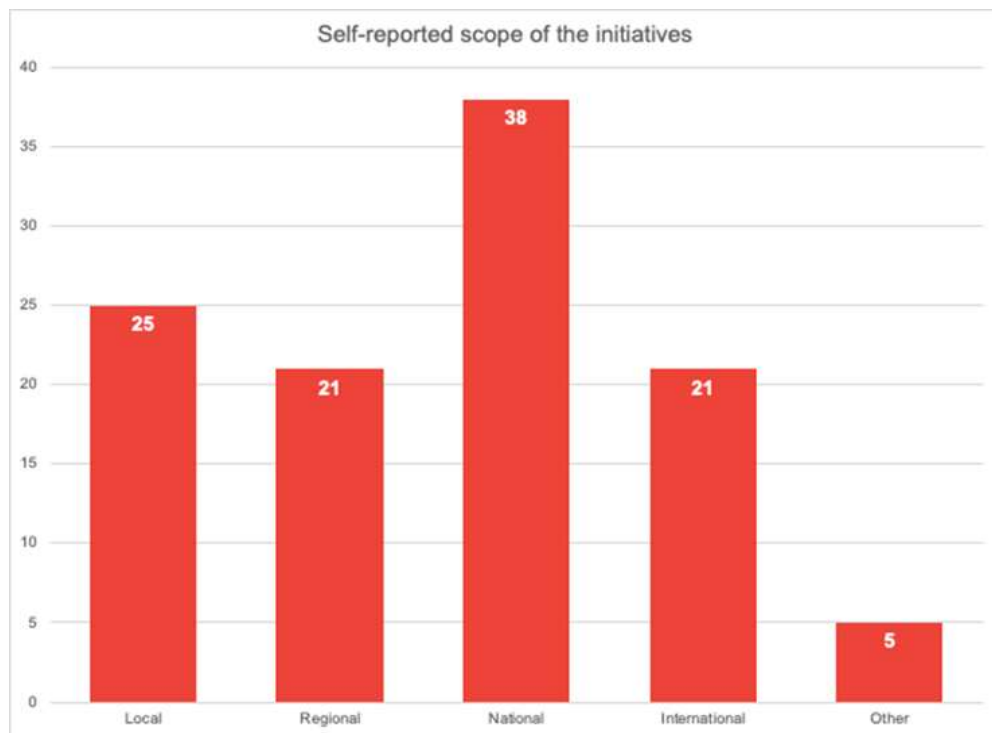
Primary

Secondary

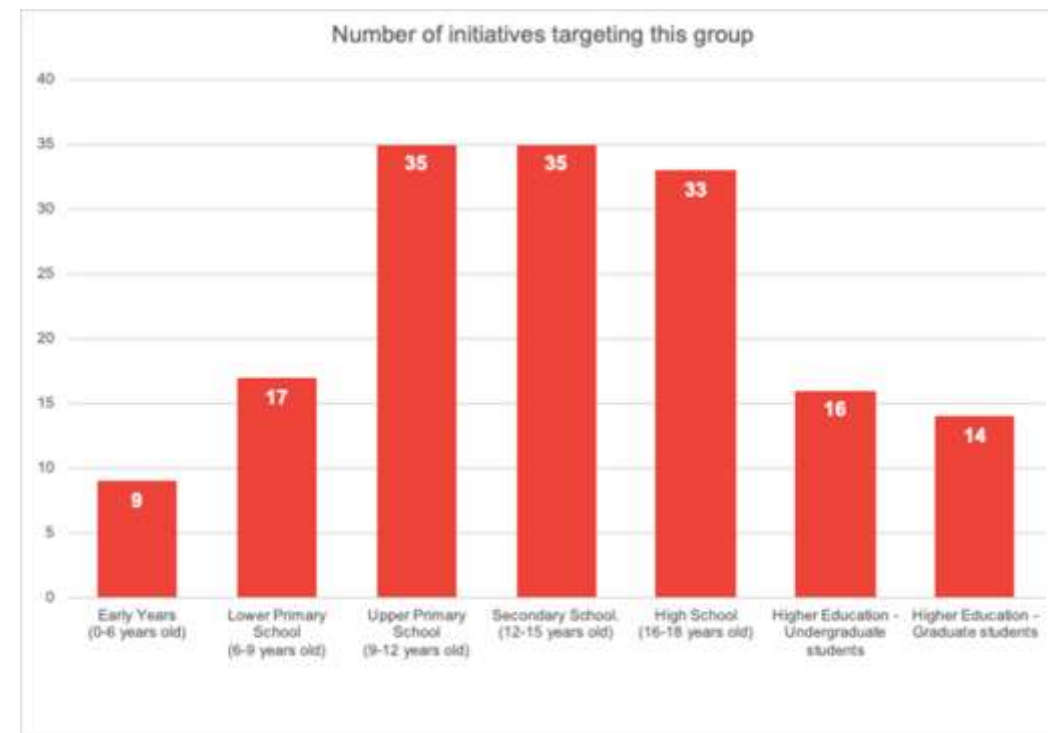
High school



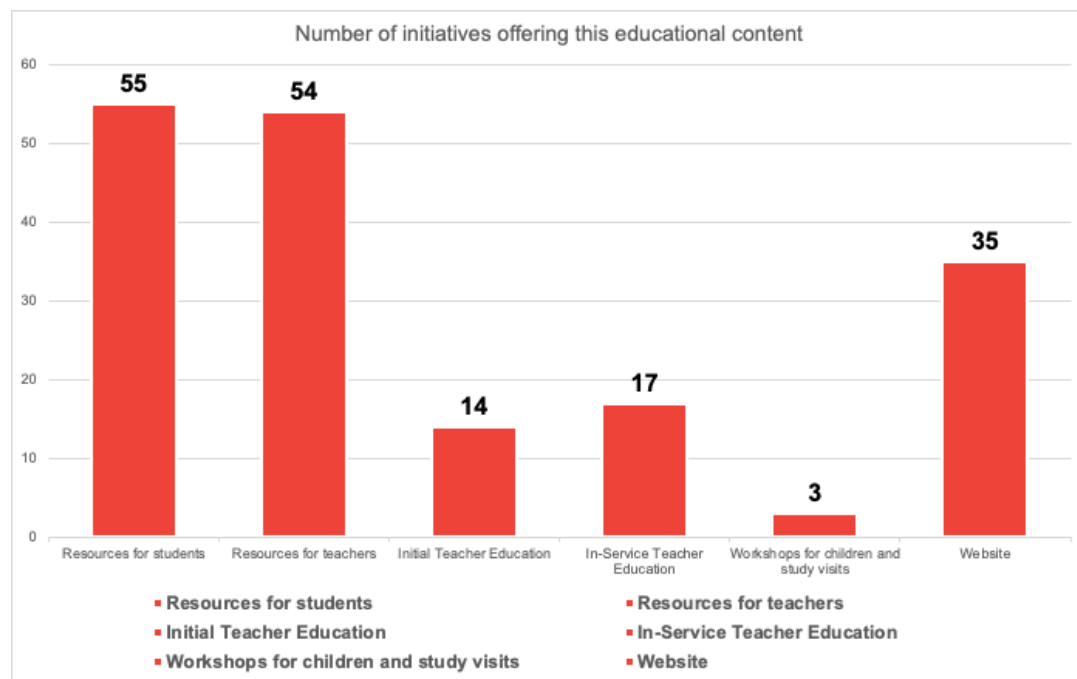
Scope of Initiative



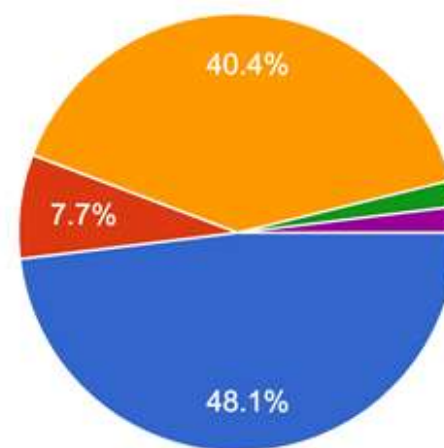
Targeted Age Group



Educational Support Provided

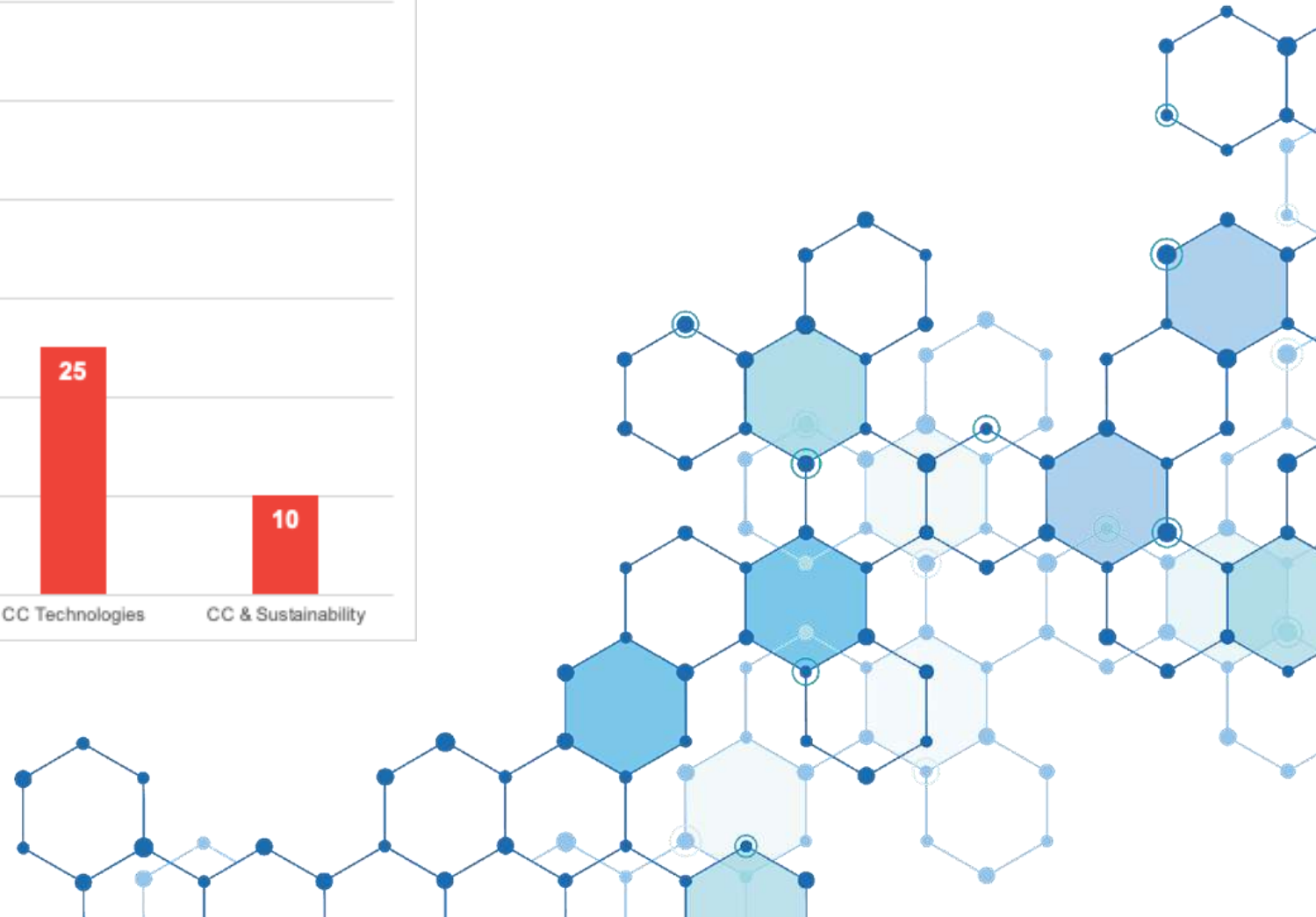
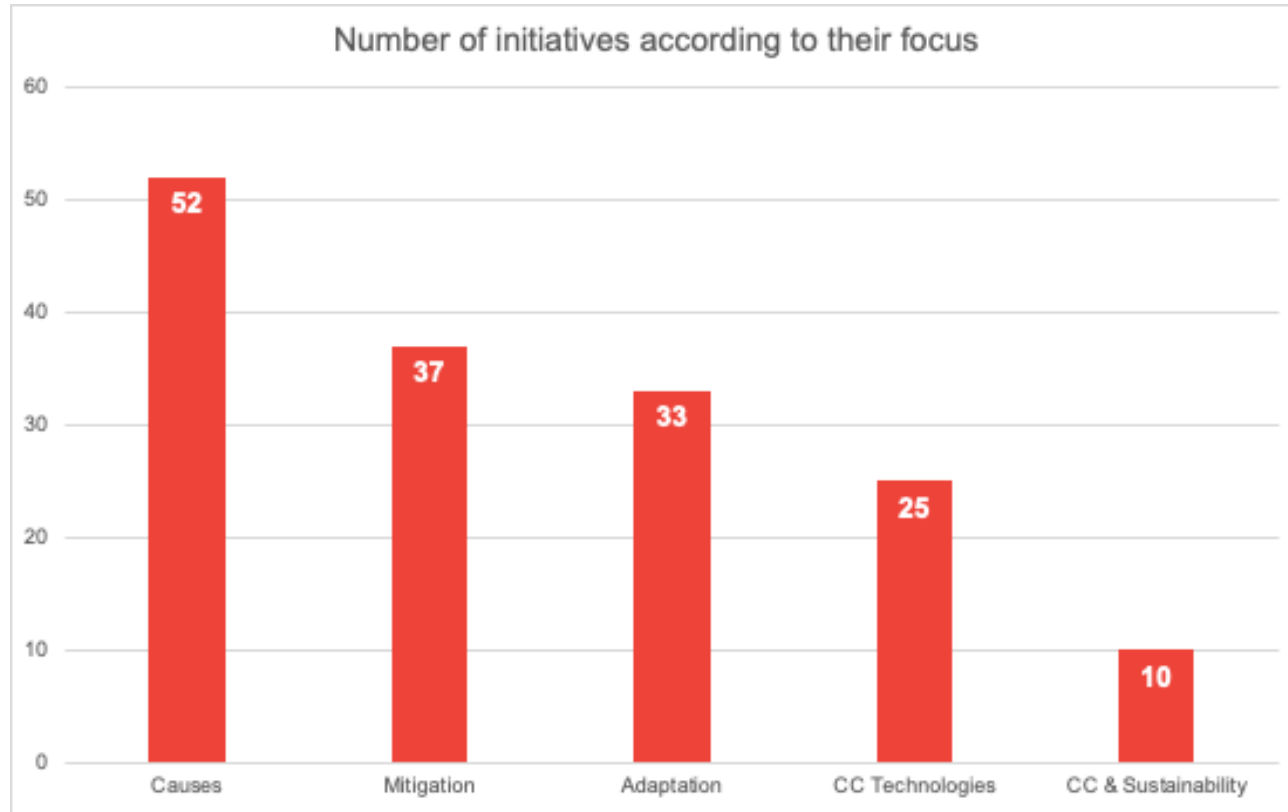


Professional Development



- Face-to-face
- Online
- Blended (a mix of face-to-face and online work)
- We offer the teaching material, but the teachers using it do that face-to-face in the classroom
- Short course or read by your self (it's a book)

Focus





Recommendation 1

- Collate good exemplars of CCE resources for different age groups
- Assess quality
- Develop a set of criteria / framework for effective CCE resources



Recommendation 2

- Aims of CCE initiatives need to expand to focus more on mitigation and adaptation
- CCE initiatives should consult the successive IPCC reports
 - for most recent developments in climate science.
 - outline potential solutions for adaptation and mitigation.



Recommendation 3

More information on extent 'climate justice' is addressed in the different educational resources / projects.



Recommendation 4

- Climate change can provoke a sense of helplessness among children
- Initiatives should focus on solutions and collective actions
- Decrease the eco-anxiety AND foster a sense of agency



Recommendation 5

- Gaps in the age ranges of which the initiatives target.
- Very few target Early Years Education (EYE)
- Develop CCE resources and programmes for EYEs
- Focus on more concrete topics related to climate change



Recommendation 6

- A dearth of initiatives that offer CPD for teachers
- Need to research, develop and implement high-quality CPD
- Research impact of CPD on
 - Teachers' confidence and competence
 - Students' learning



Recommendation 7

Develop Framework for Effective CCE CPD

- Climate Science
- Inquiry-Based Science Education (IBSE) pedagogy
- Nature of Science (NoS) pedagogy
- Project- based pedagogy



Recommendation 8

- Research that explores the extent to which ESD and CCE are being included curricula
- Research to establish whether existing CCE resources (ITE & CPD) are linked with National curricula



