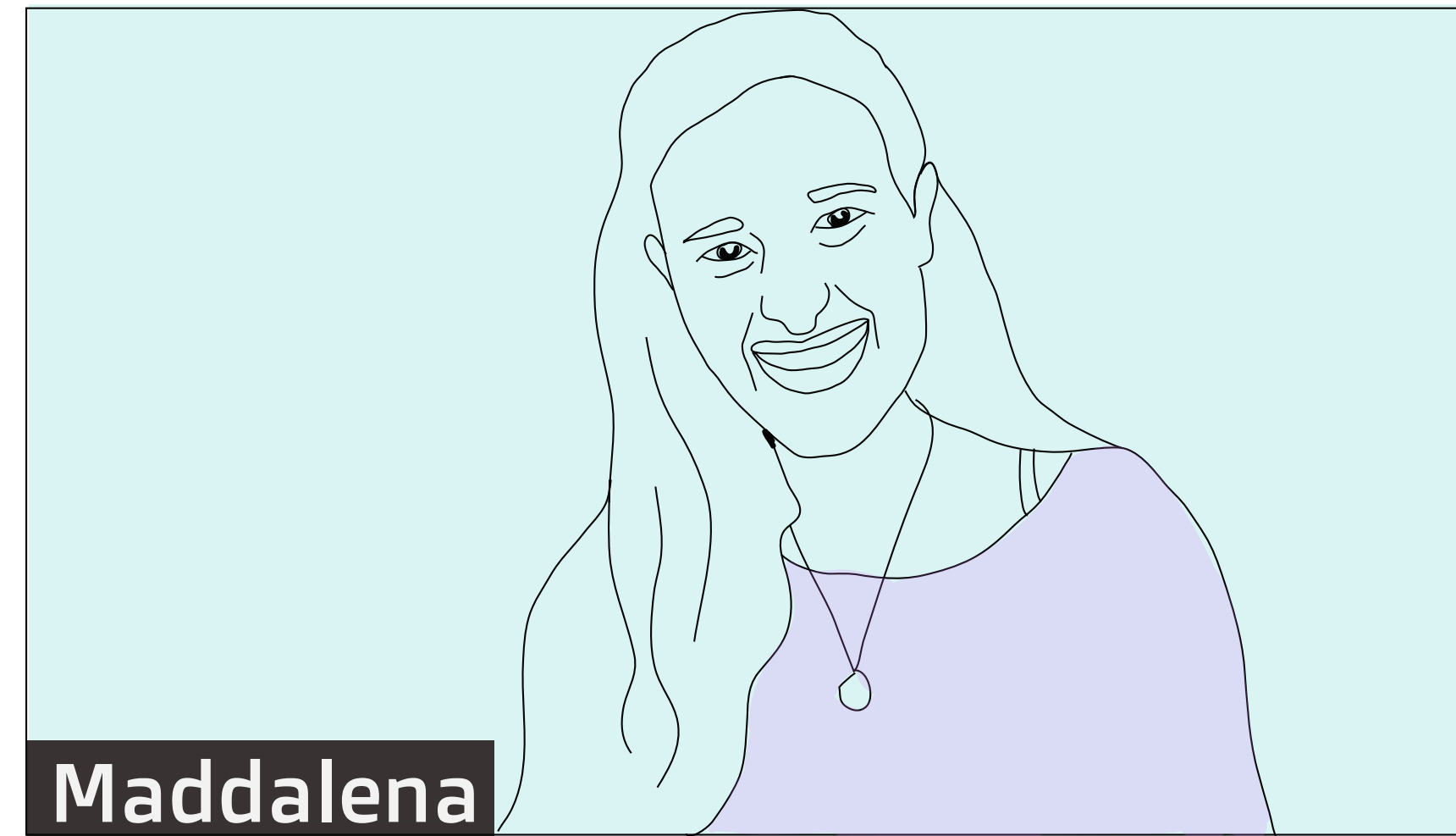
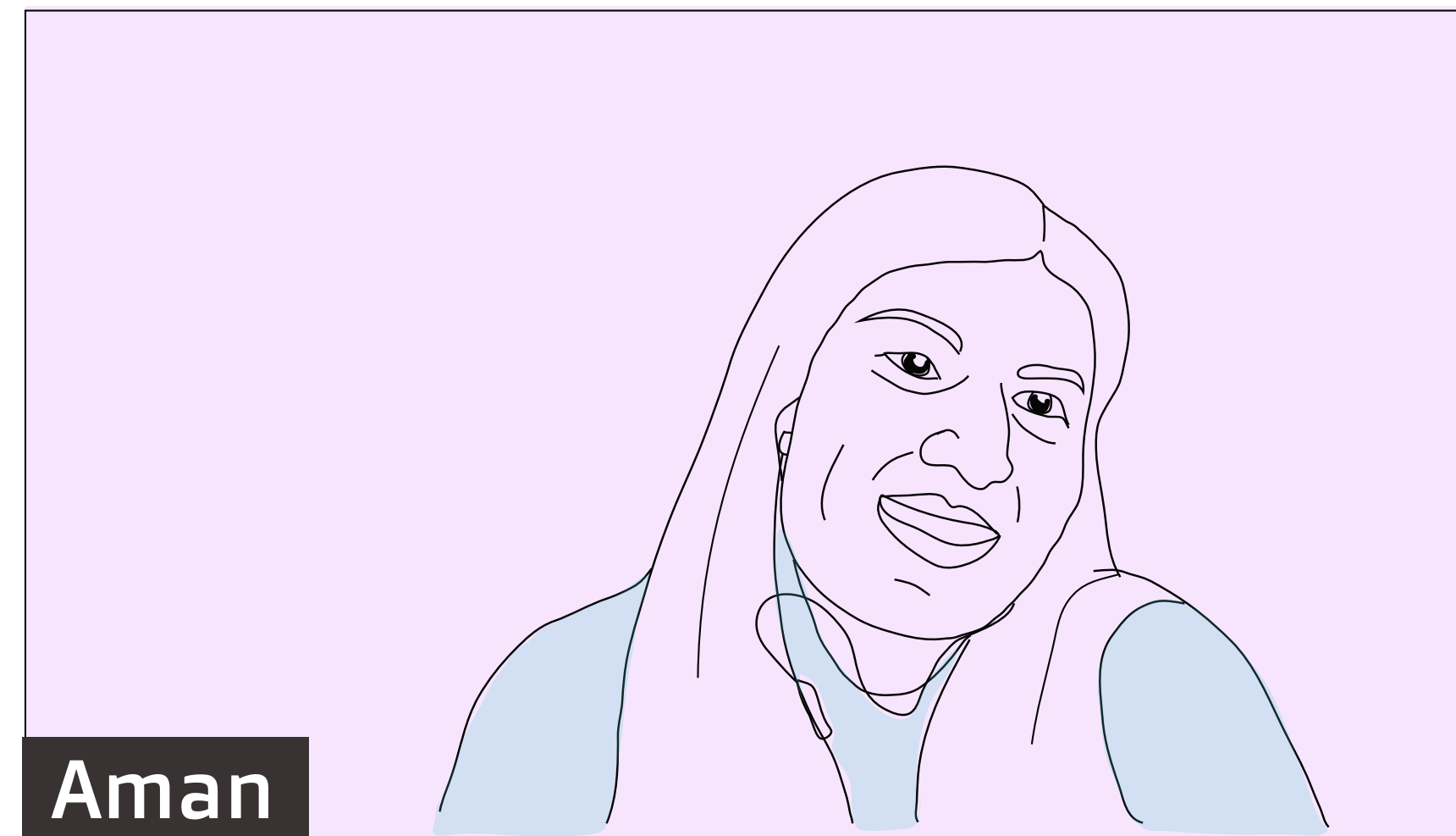


Carbon Neutral Generation

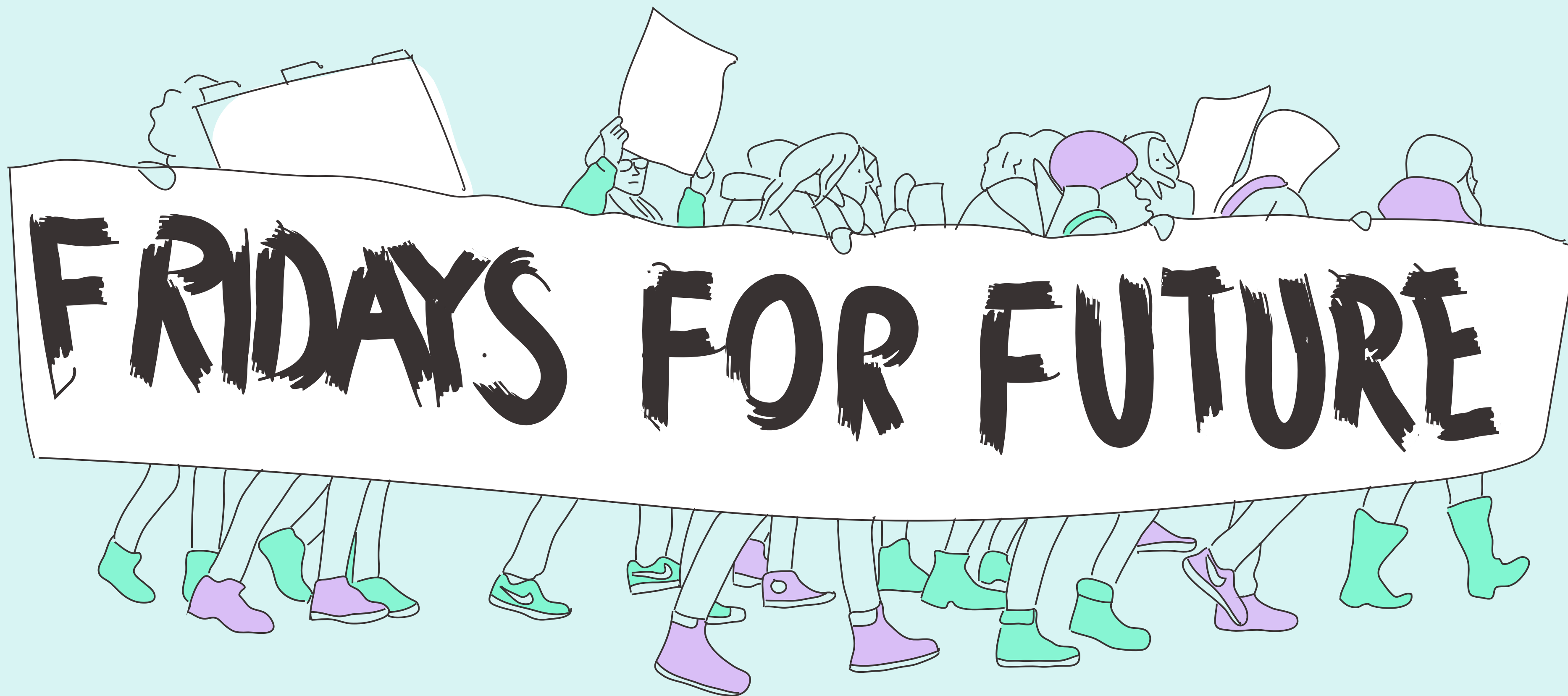


Meet the team





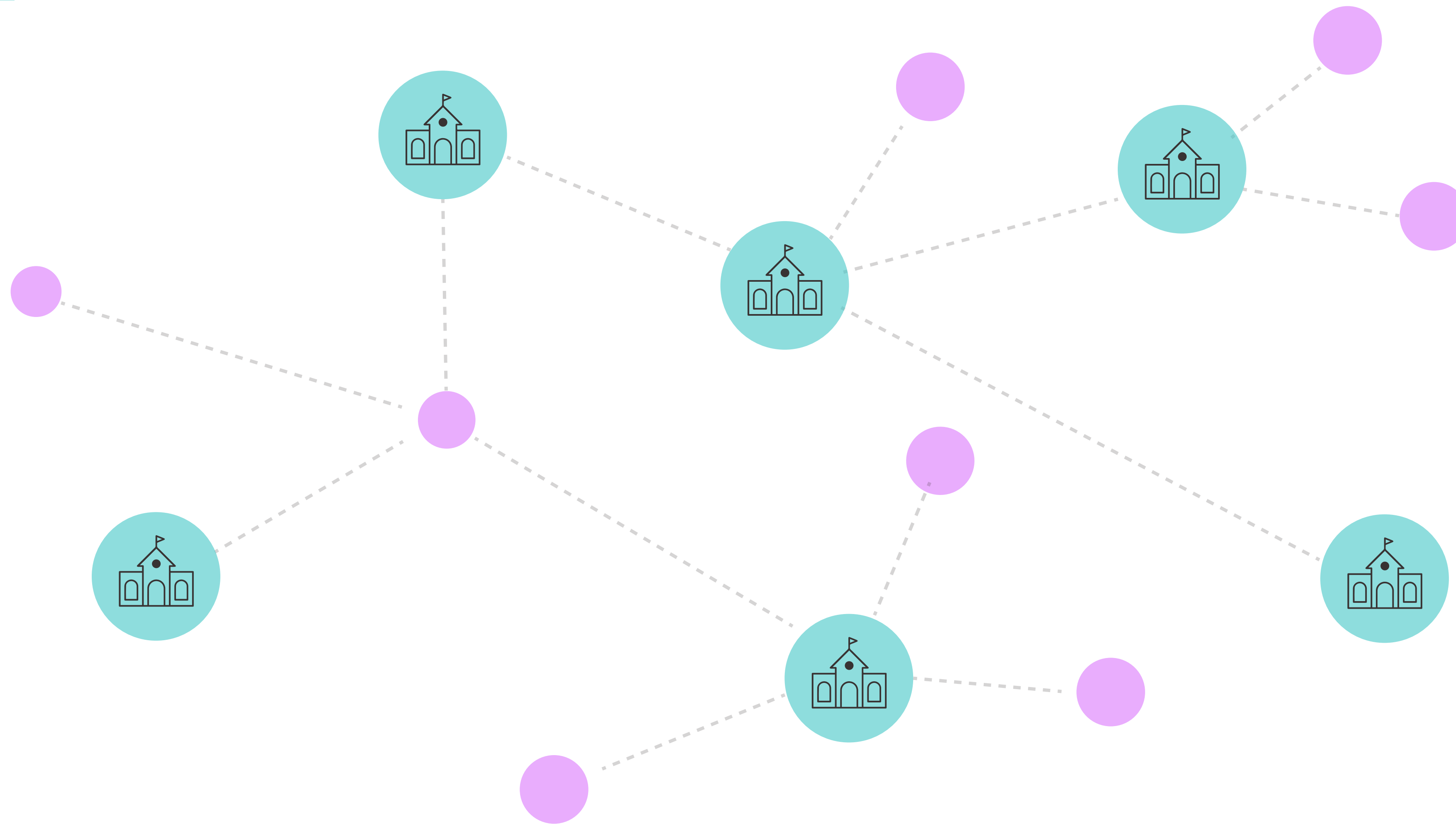
“The Government will work to ensure that **Finland is carbon neutral by 2035** & carbon negative soon after that.”



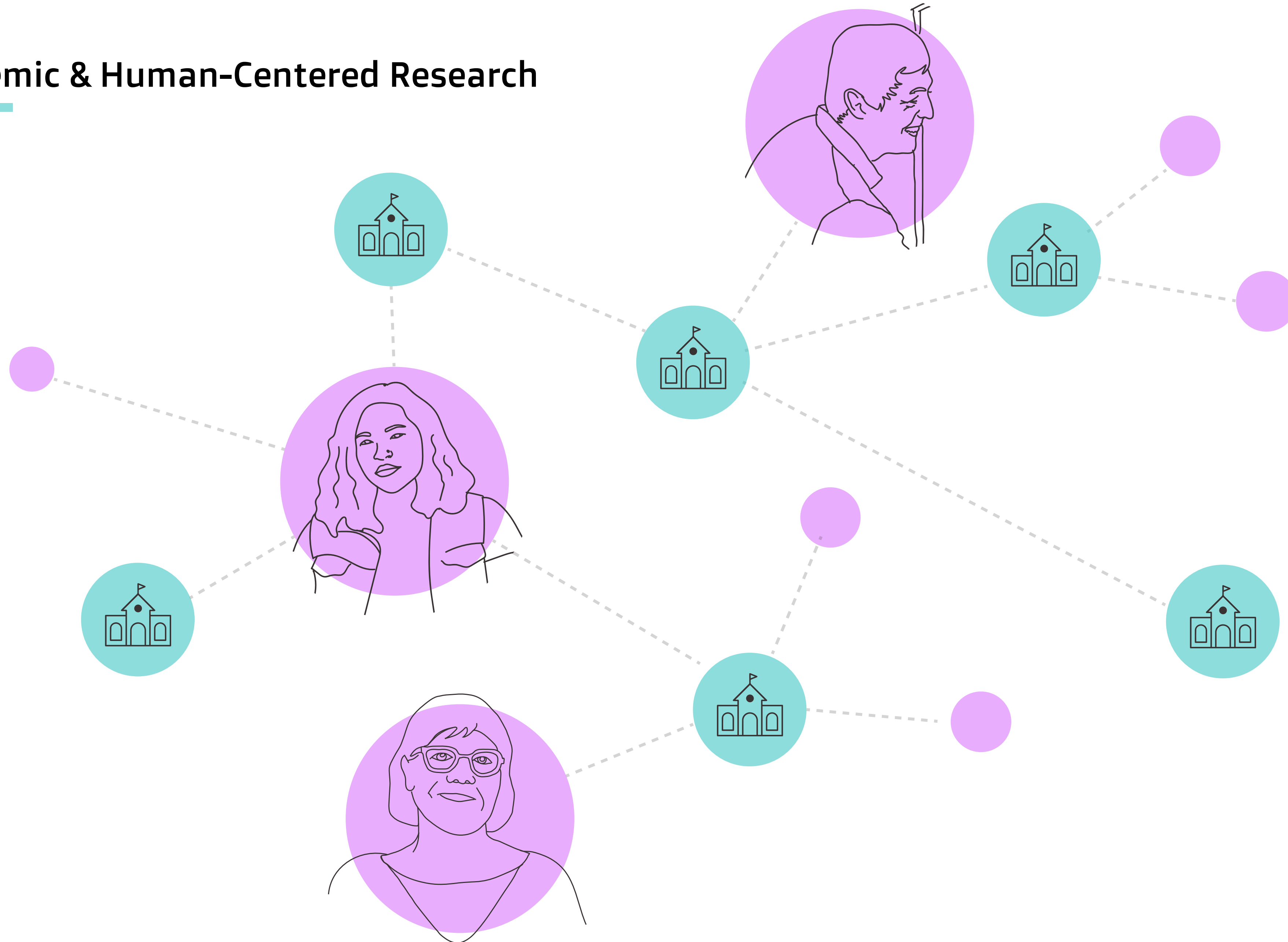
Carbon Neutral Generation



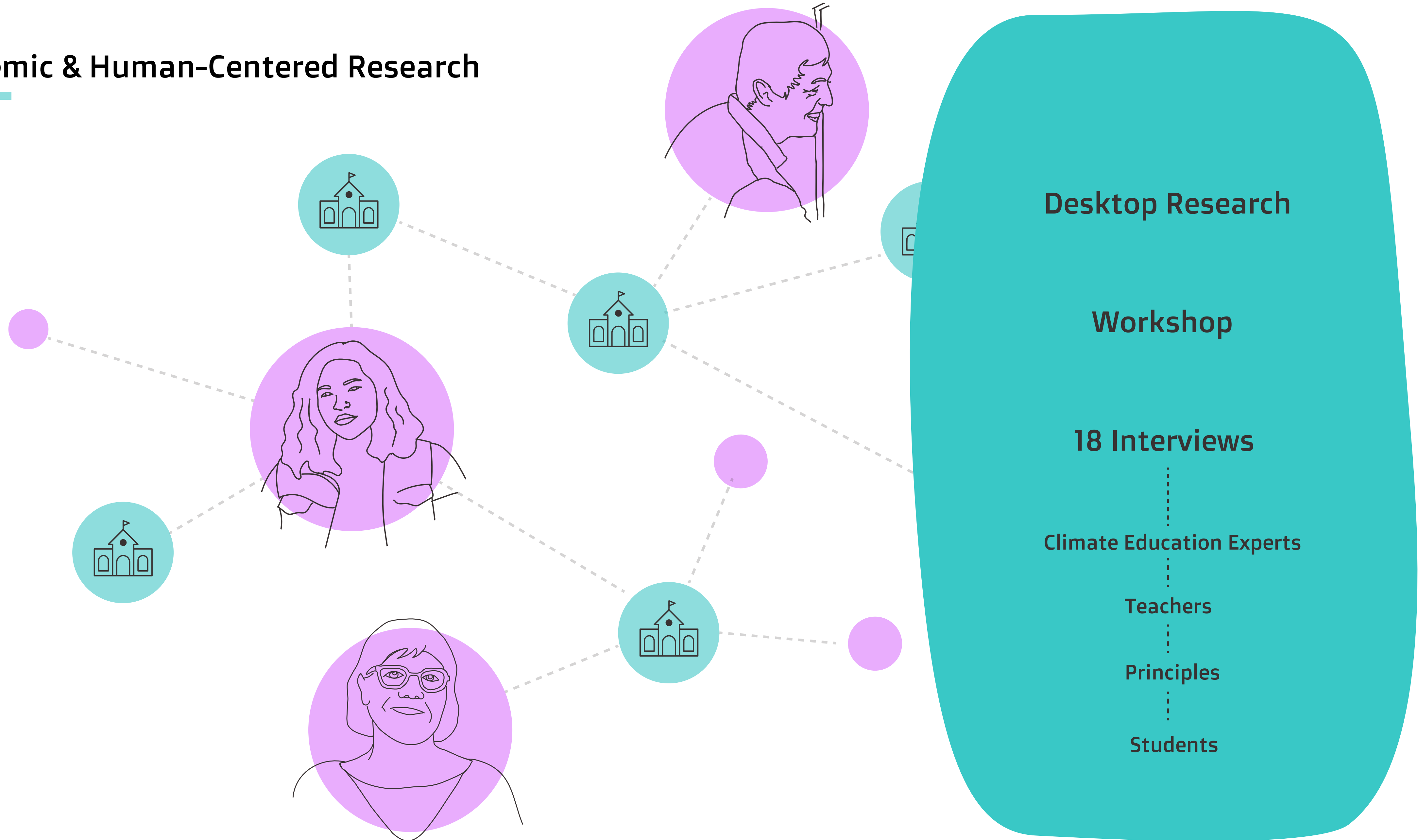
Systemic & Human-Centered Research



Systemic & Human-Centered Research



Systemic & Human-Centered Research



Insight 1: Bring action to Climate Education

Climate
Education

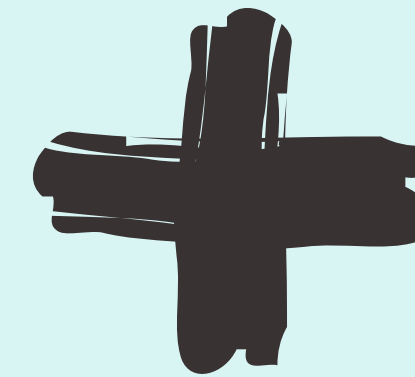


Insight 1: Bring action to Climate Education

Climate
Education



Climate
Knowledge



Climate
Action

Insight 2: Climate Action is Diverse



Insight 2: Climate Action is Diverse

“Students get a general idea of democracy but no practical support on how to be active citizens.”
- Civil servant



Project Goals

1

Focus on climate action at different levels

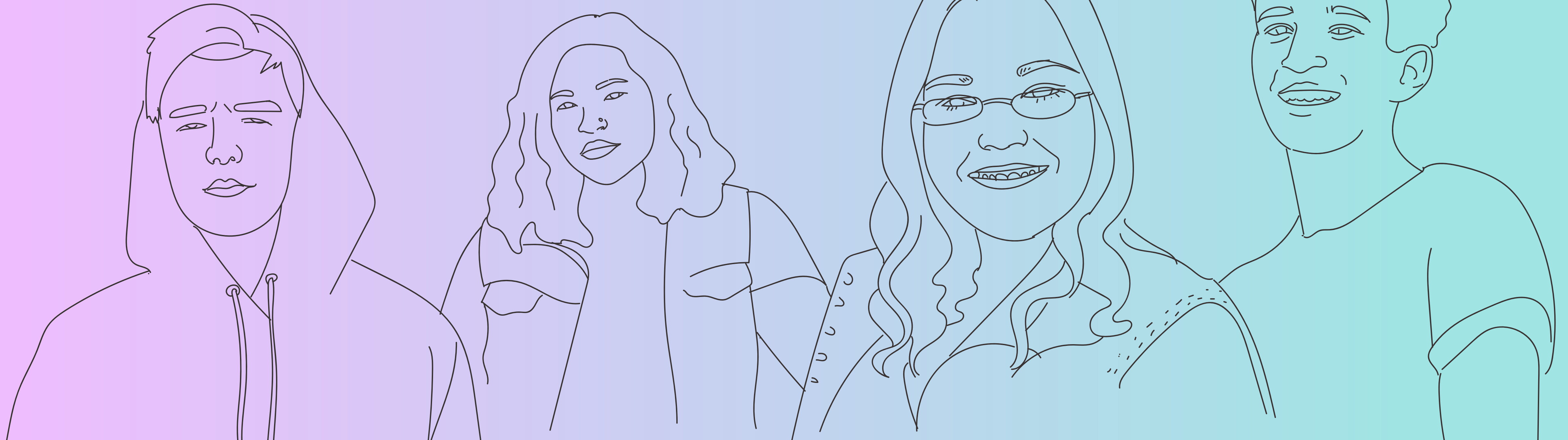
2

3

4

5

Insight 3: No Student is the Same



Unmotivated

Motivated

“The generation before us messed everything up anyway...”

“Why do we have to talk about sustainability again..?”

“I would like to take part in some projects, but I'm not friends with the active students.”

“I want to do more, we need to save the world!”

Project Goals

1

Focus on climate action at different levels

2

Reach active and non-active students

3

4

5

Project Goals

1

Focus on climate action at different levels

2

Reach active and non-active students

3

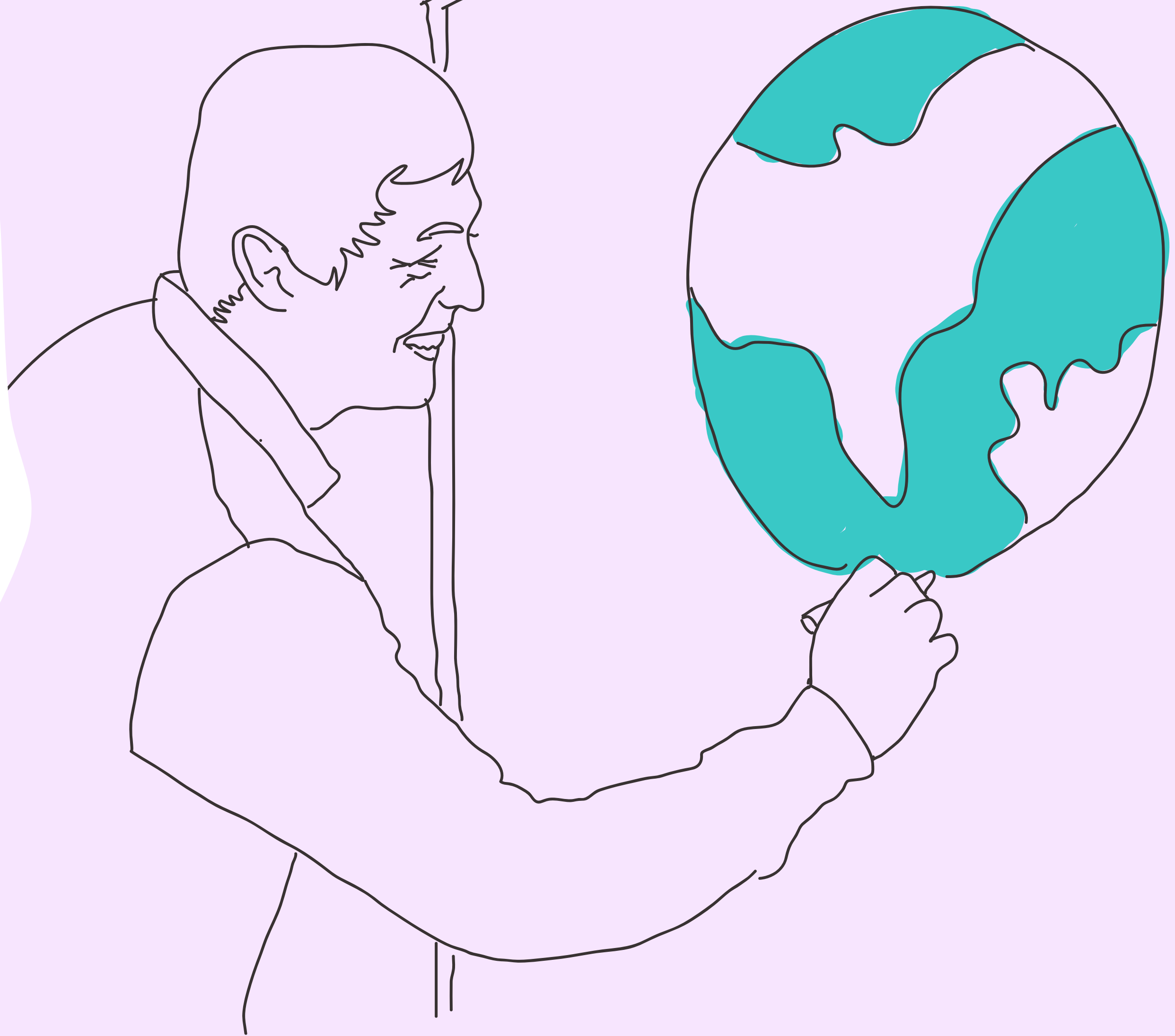
Build motivation and confidence to have positive impact

4

5

Insight 4: In Teachers we trust

“Finland [...] reaches high levels of achievement by attracting highly qualified teachers with supportive working conditions, strong degrees of professional trust and an inspiring mission of inclusion and creativity.”
(Hargreave & Shirley, 2009)



Project Goals

1

Focus on climate action at different levels

2

Reach active and non-active students

3

Build motivation and confidence to have positive impact

4

Maintain teacher autonomy

5

Project Goals

1

Focus on climate action at different levels

2

Reach active and non-active students

3

Build motivation and confidence to have positive impact

4

Maintain teacher autonomy

5

Bring consistency to climate education across the country

Project Goals

1

Focus on climate action at different levels

2

Reach active and non-active students

3

Build motivation and confidence to have positive impact

4

Maintain teacher autonomy

5

Bring consistency to climate education across the country



Garbon Neutral Generation

Our proposal

Carbon Neutral Generation

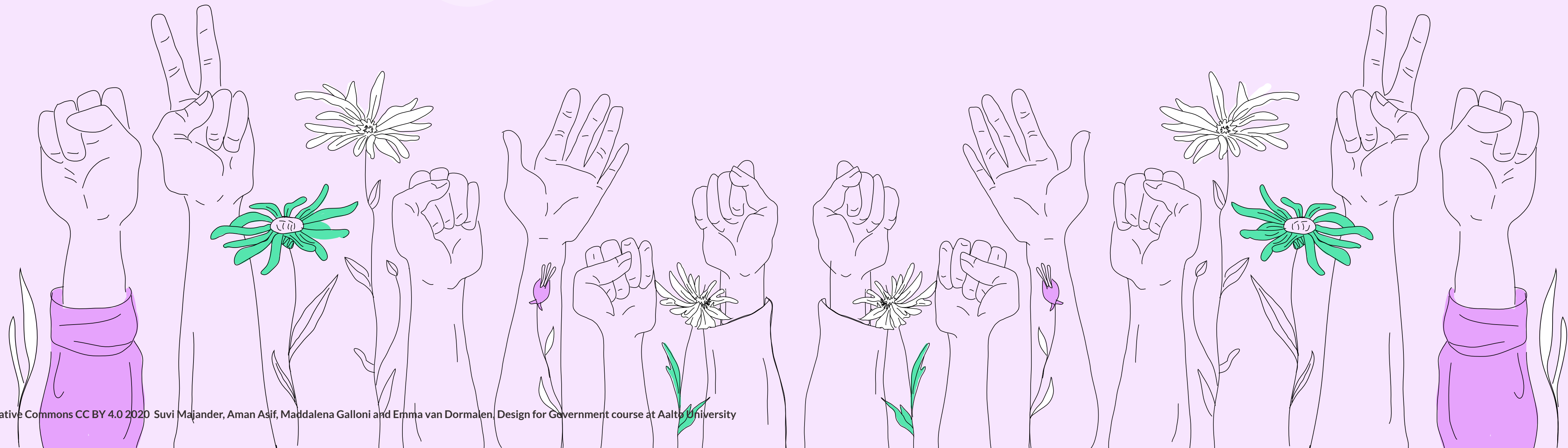
1

Why?

Schools play a crucial role in the achievement of the 2035 national carbon neutrality

3

2



Carbon Neutral Generation

1

Why?

Schools play a crucial role in the achievement of the 2035 national carbon neutrality

3

2

What?

Carbon Neutral Generation: a program that provides an approach to deliver continuous, action-focused climate education to all students.



Carbon Neutral Generation

1

Why?

Schools play a crucial role in the achievement of the 2035 national carbon neutrality

3

How?

Through the three components: carbon calculator, climate project and reflection, students have the basis to become climate conscious and active citizens

2

What?

Carbon Neutral Generation: a program that provides an approach to deliver continuous, action-focused climate education to all students.



Carbon Neutral Generation

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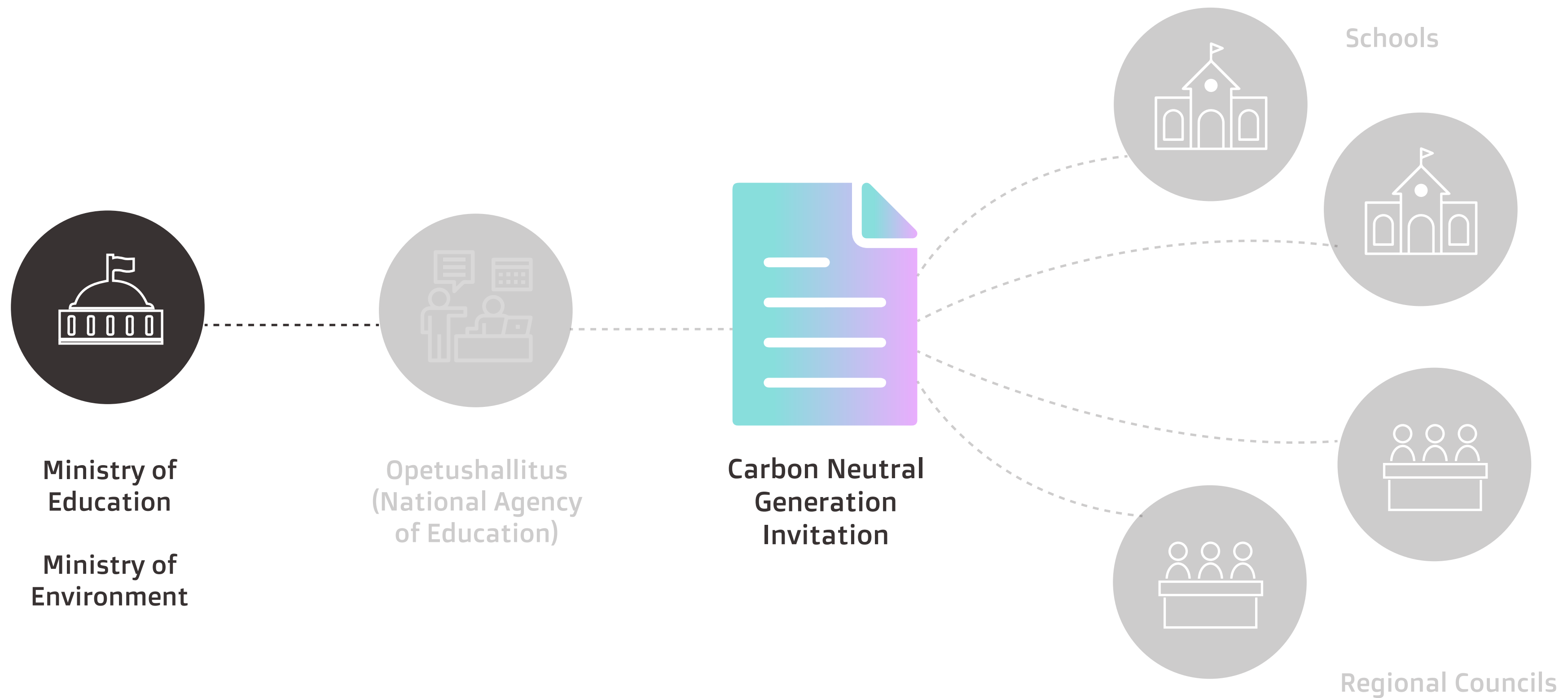
2

What?

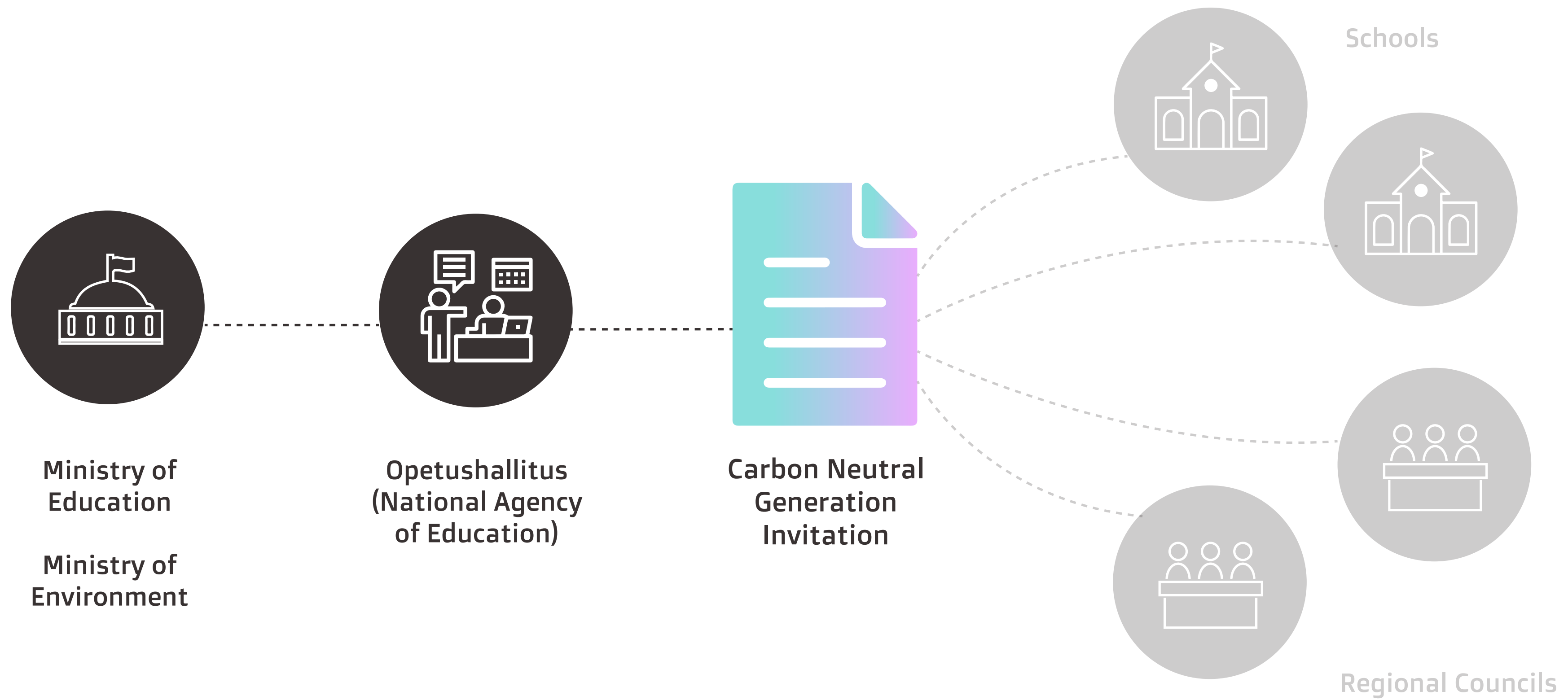
Carbon Neutral Generation: a program that provides an approach to deliver continuous, action-focused climate education to all students.



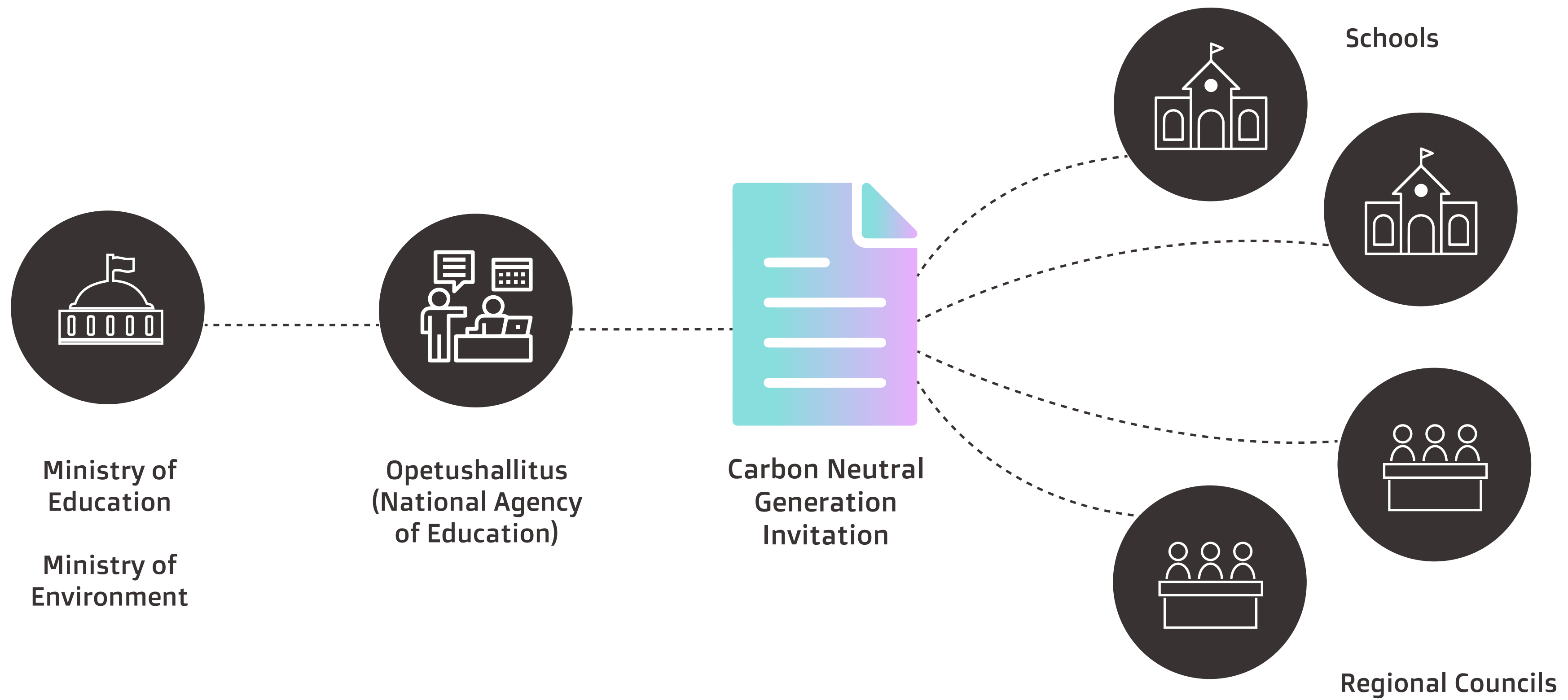
Project Stakeholders & Information Flow



Project Stakeholders & Information Flow



Project Stakeholders & Information Flow



Learning Goals

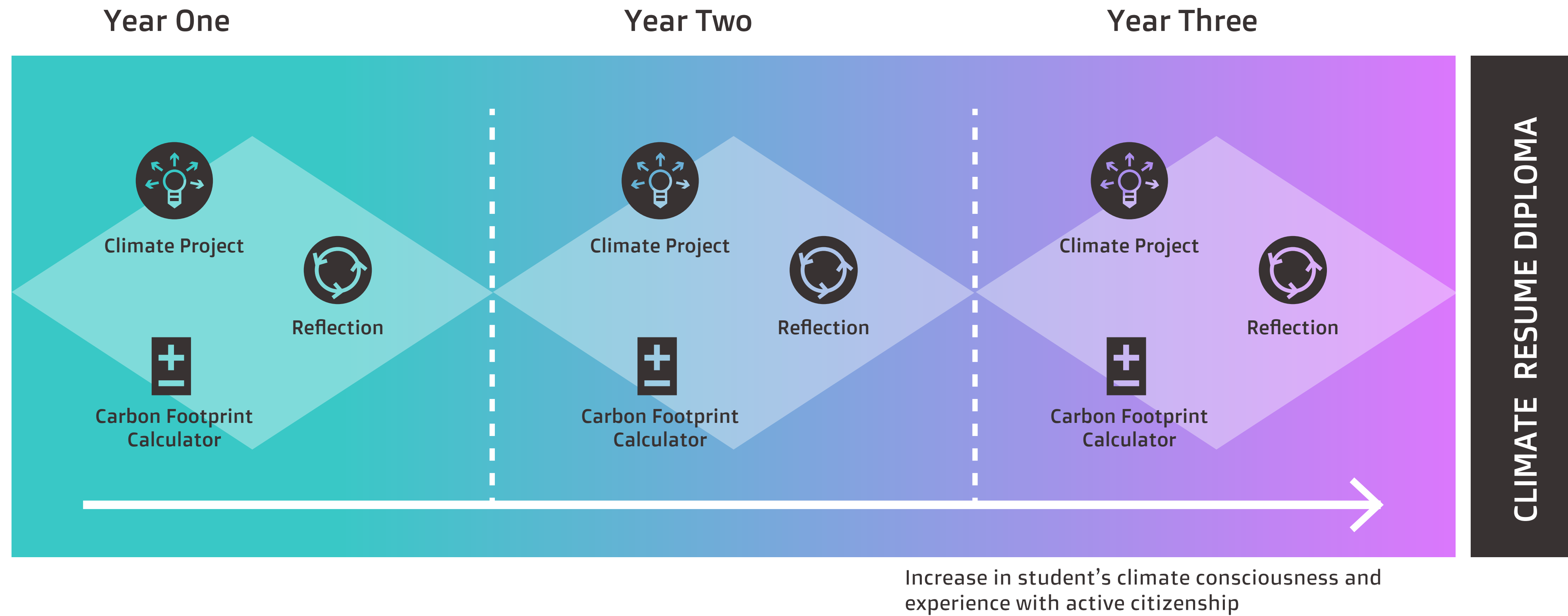


Being
Climate-conscious

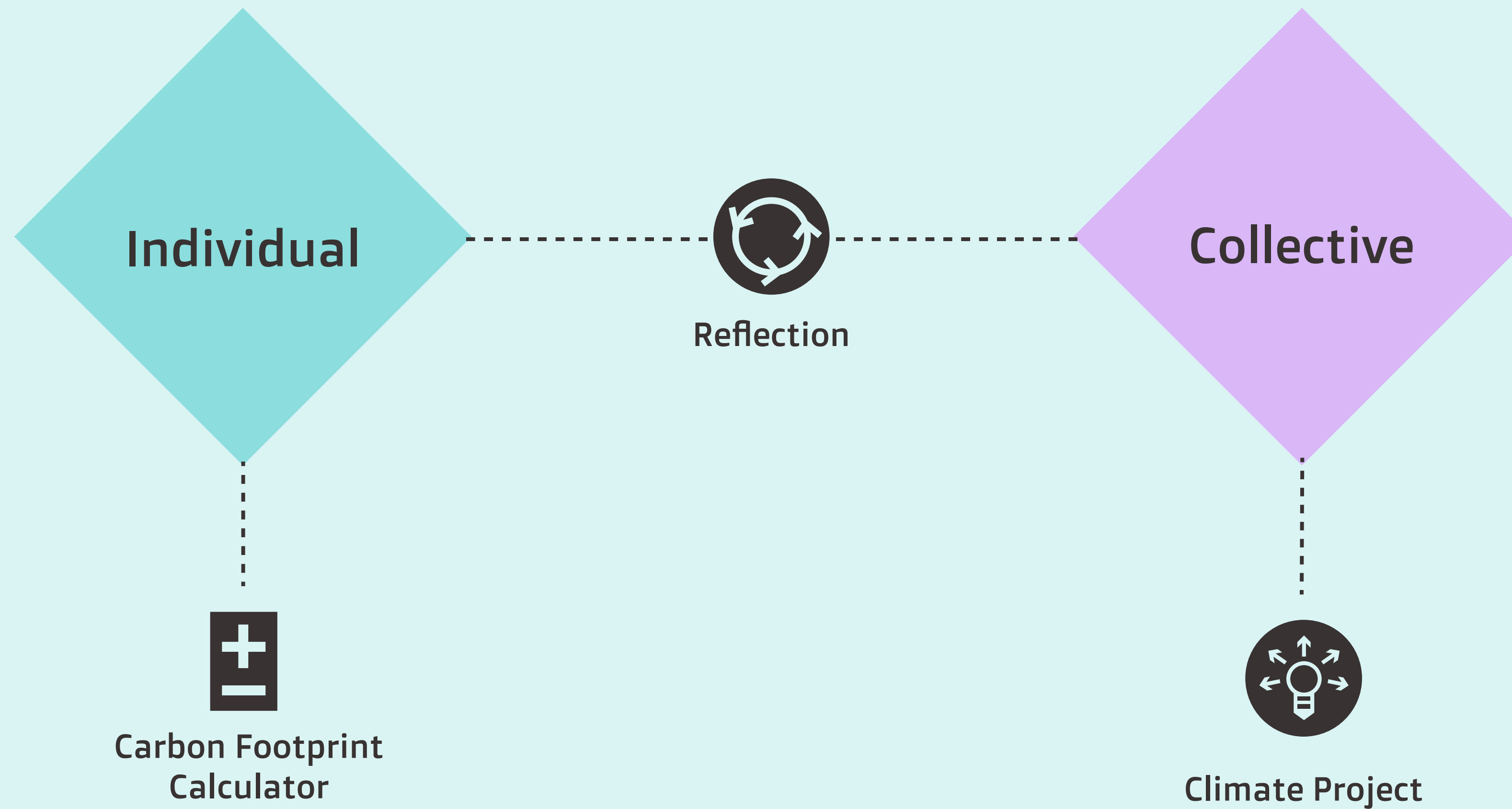


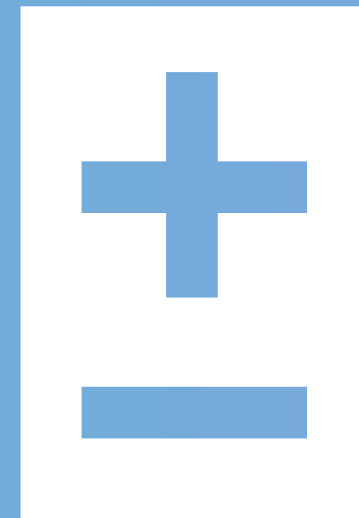
Being
Climate Active

Carbon Neutral Generation Program



Levels of Impact

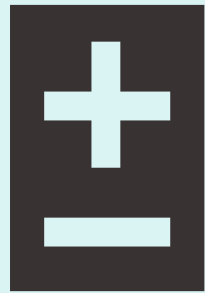




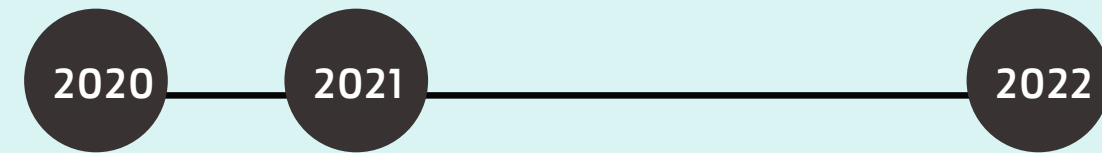
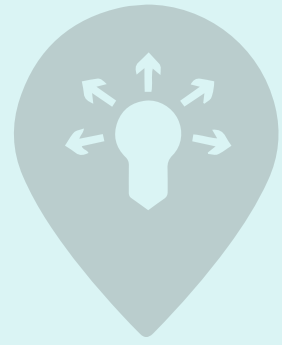
Carbon Footprint Calculator

"I don't think my frequent flights are a big issue, they don't contribute too much towards the overall emissions"





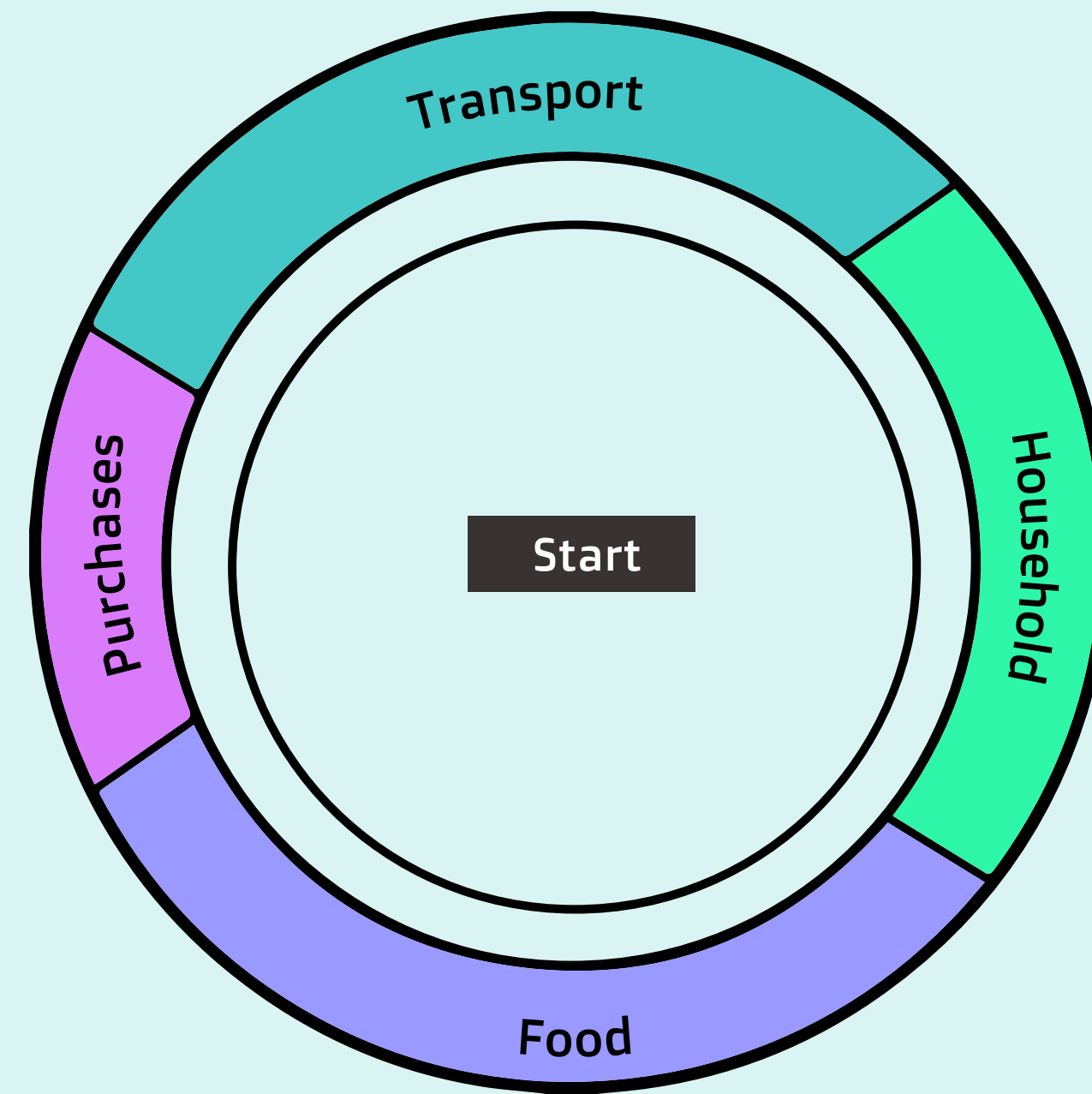
Carbon Footprint Calculator



Track your Progress -

How can I decrease my carbon footprint?

Take new Carbon Footprint test

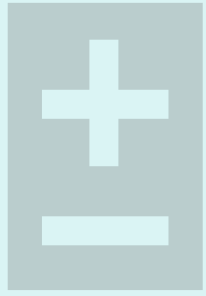




Climate Project Map

*“It is difficult to know what
projects are happening and where”*





Climate Project Map



I wrote a letter to the Municipality [\(here\)](#)

I started a student garden at my Lukio (highschool). You can read more about the project [\(here\)](#)

Search by Categories

School



Regional

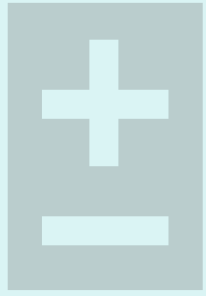


National

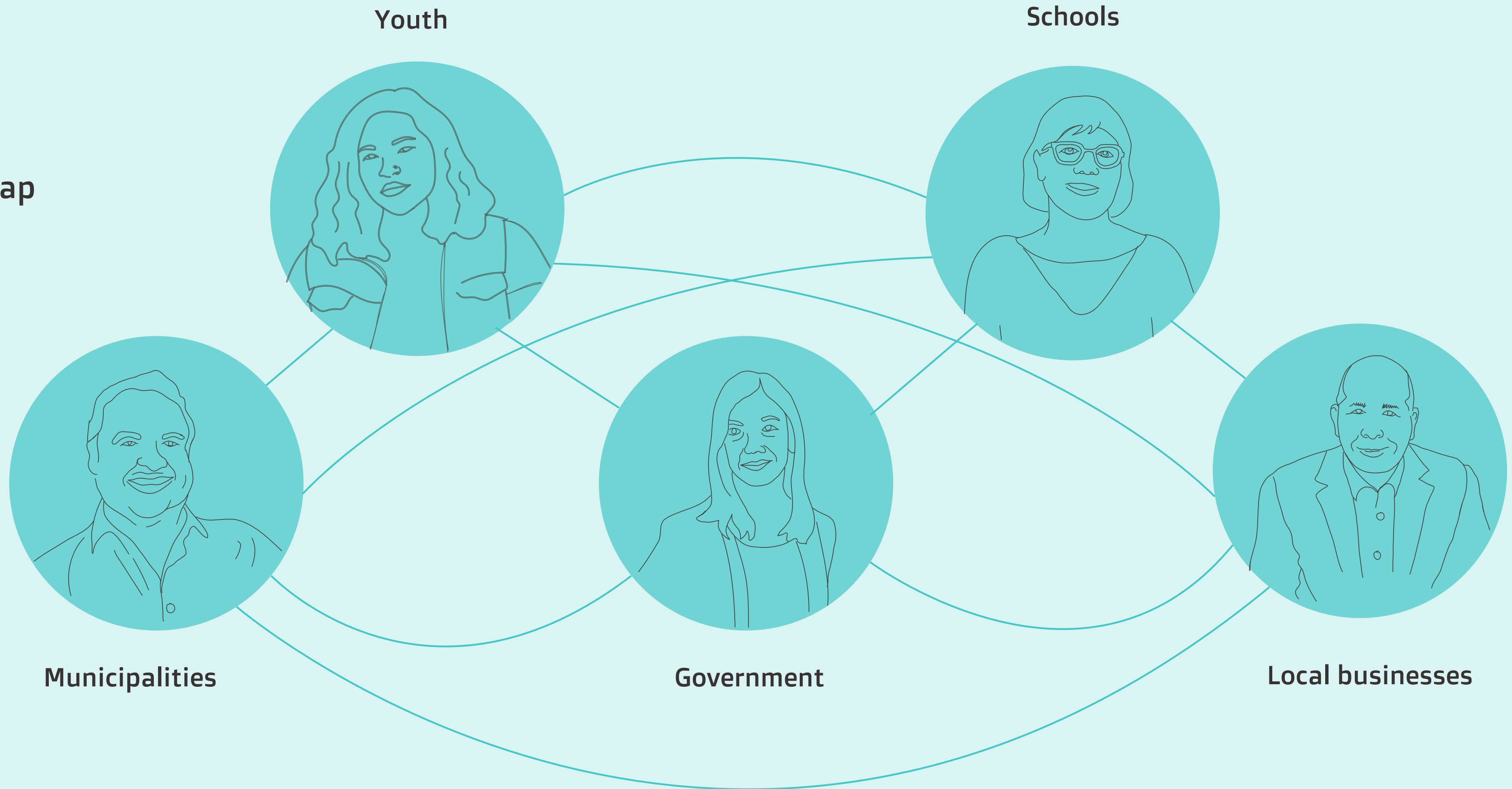


Search by Filter e.g. Food

+ Add your own project



Climate
Project Map



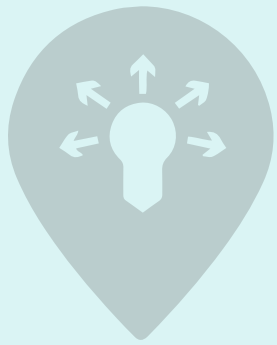
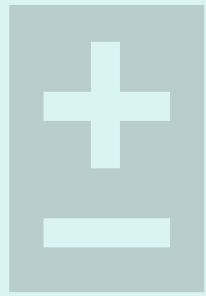
Inspiring Collaboration



Reflection

“I feel a bit overwhelmed by climate change and I wonder if I am the only one...”





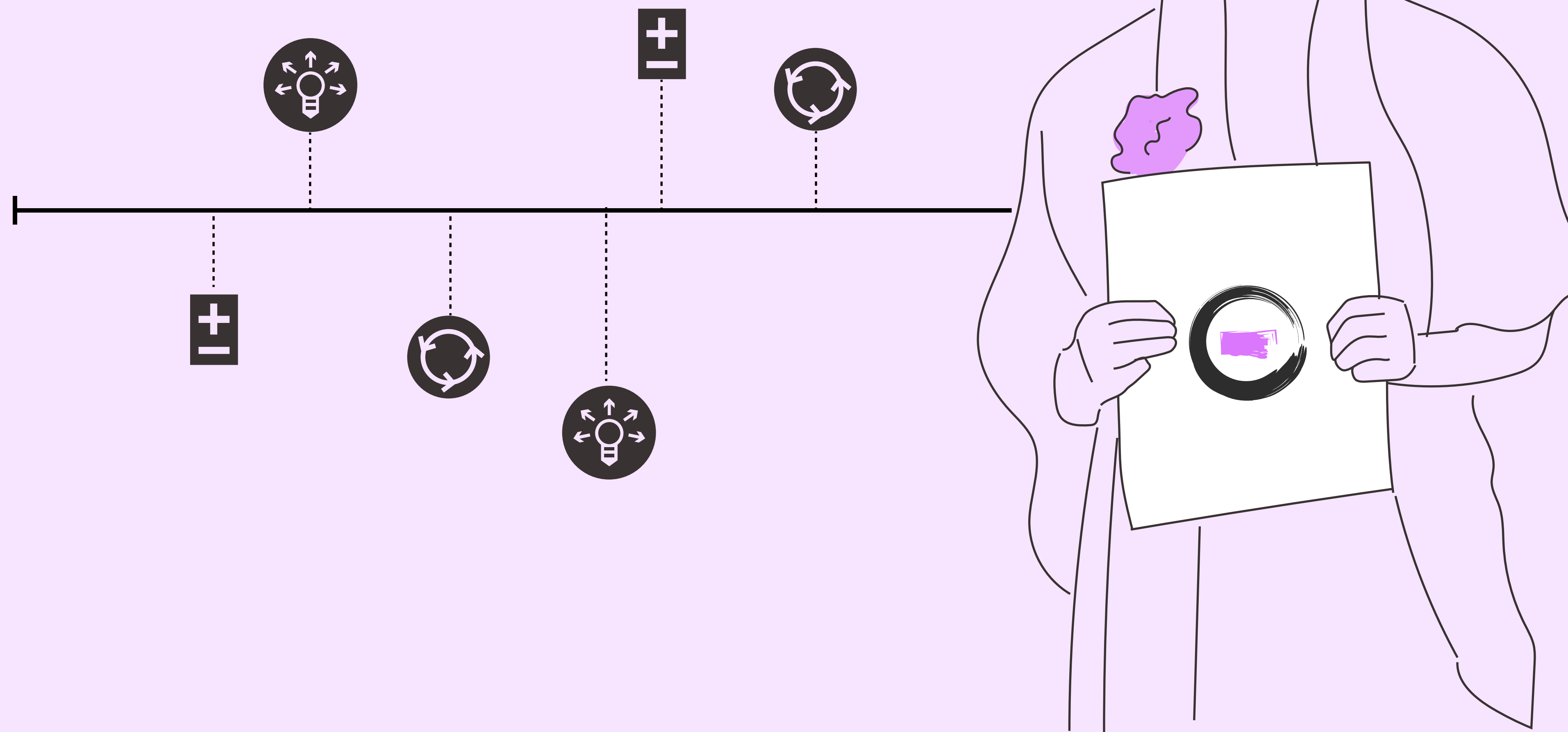
Reflection

REFLECTION

Write or Draw your Reflection & Feedback here:



Climate Resume



Overall benefit



Overall benefit



Students get:

- Emotional support
- Practical steps
- Understand their own impact.
- Share own projects

Overall benefit



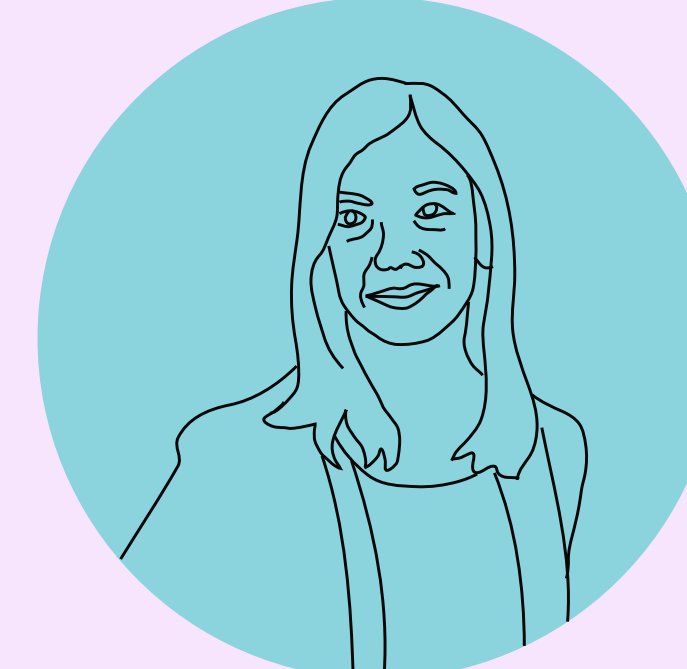
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Teachers get:

- Support for teaching
- Confidence
- Follow the students' progress
- Share best practices



Overall benefit



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Government gets:

- Help reach carbon neutrality goals
- To gather data
- Role model for climate education

Overall benefit



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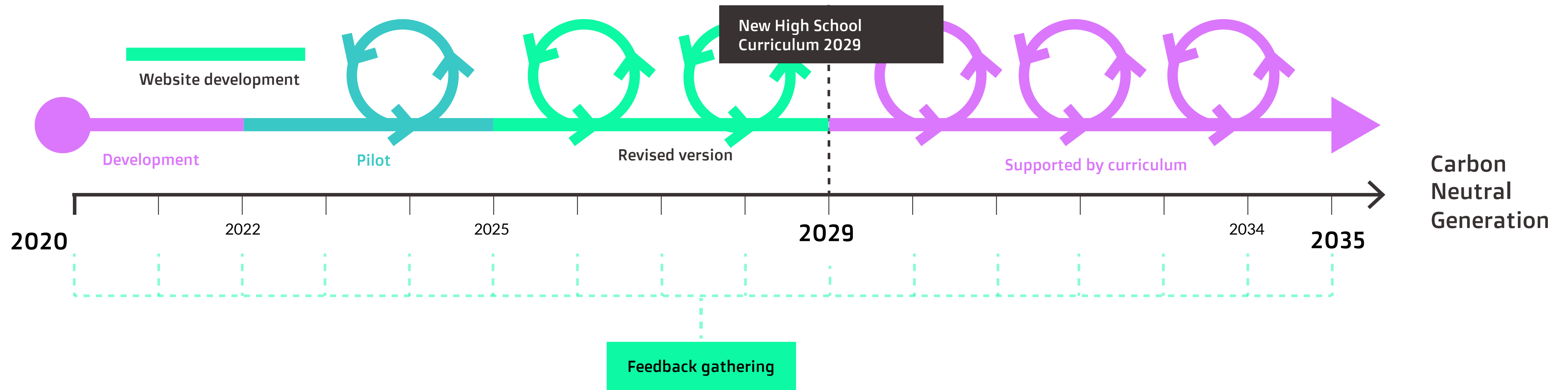
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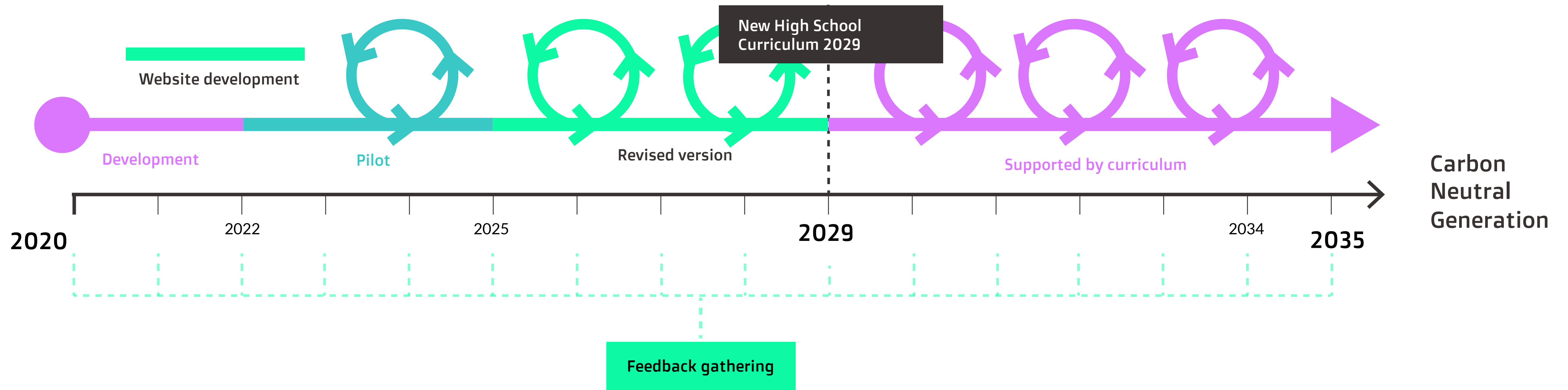
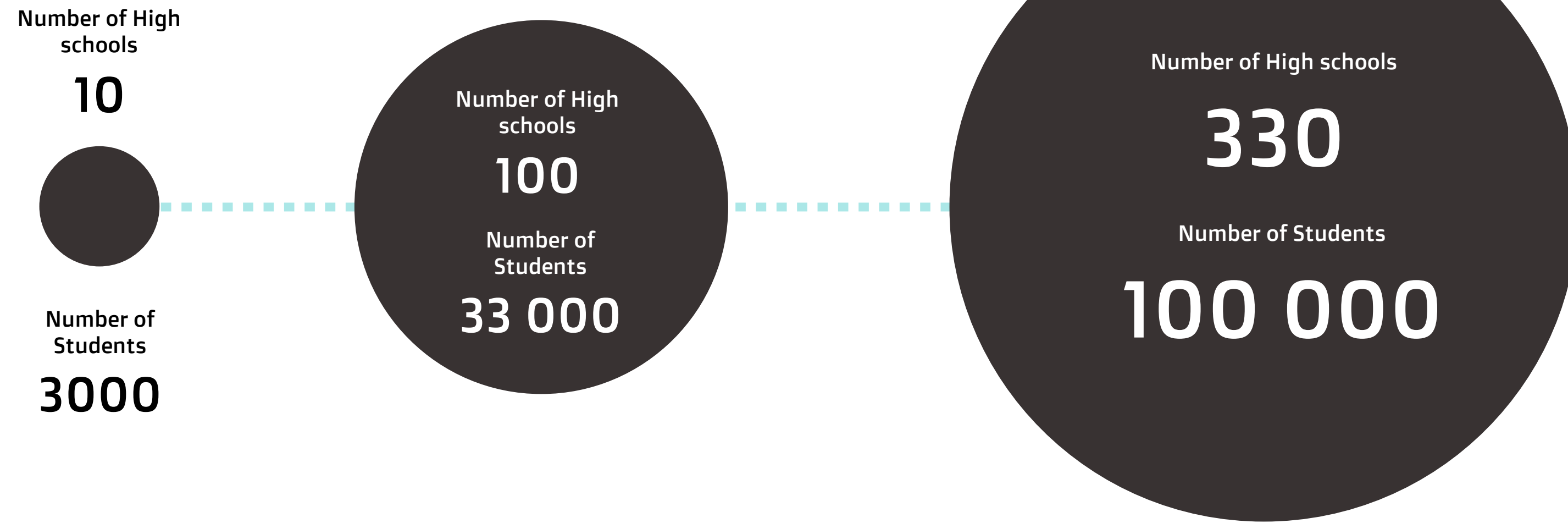
Implementation Strategy



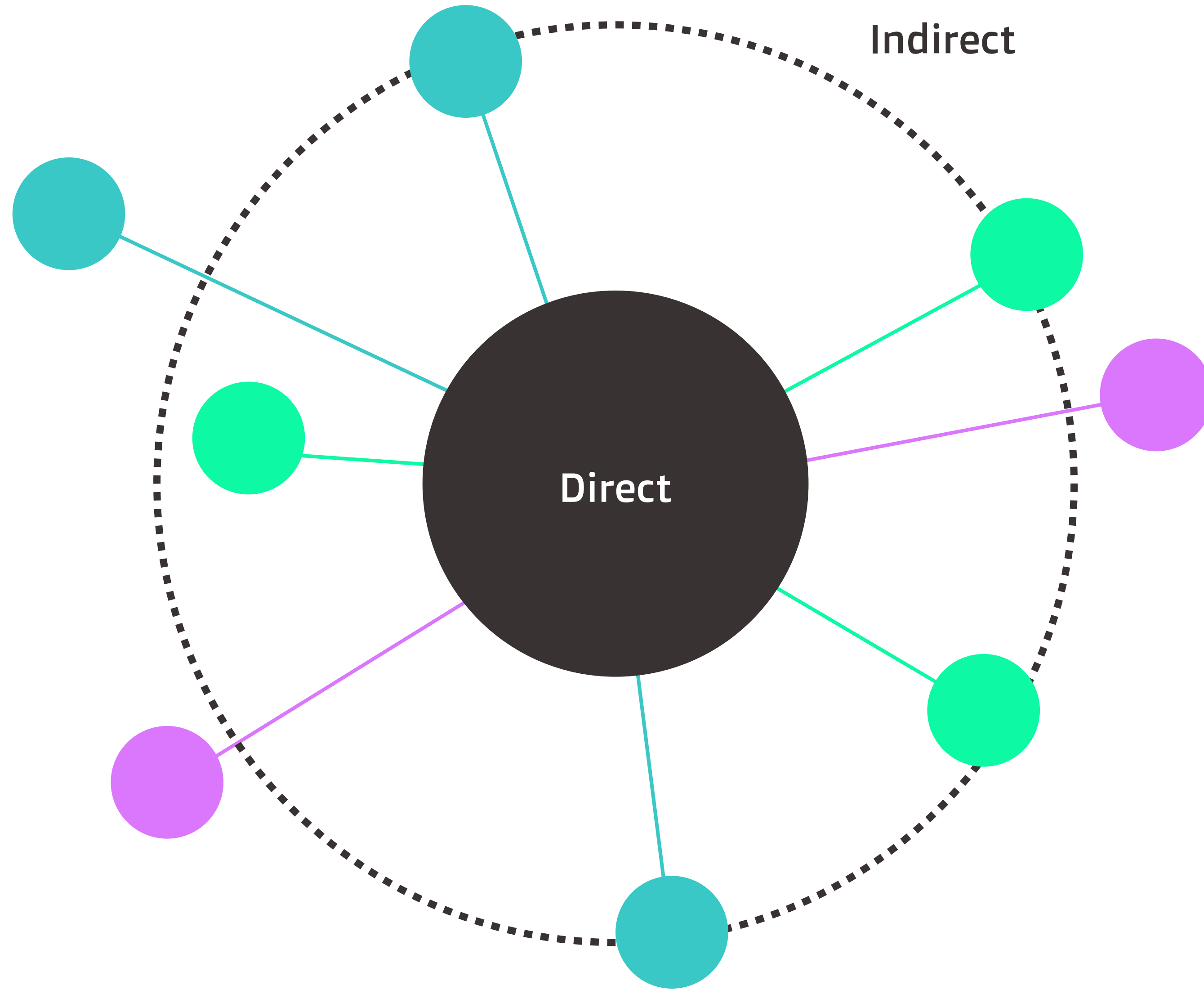
Implementation Strategy



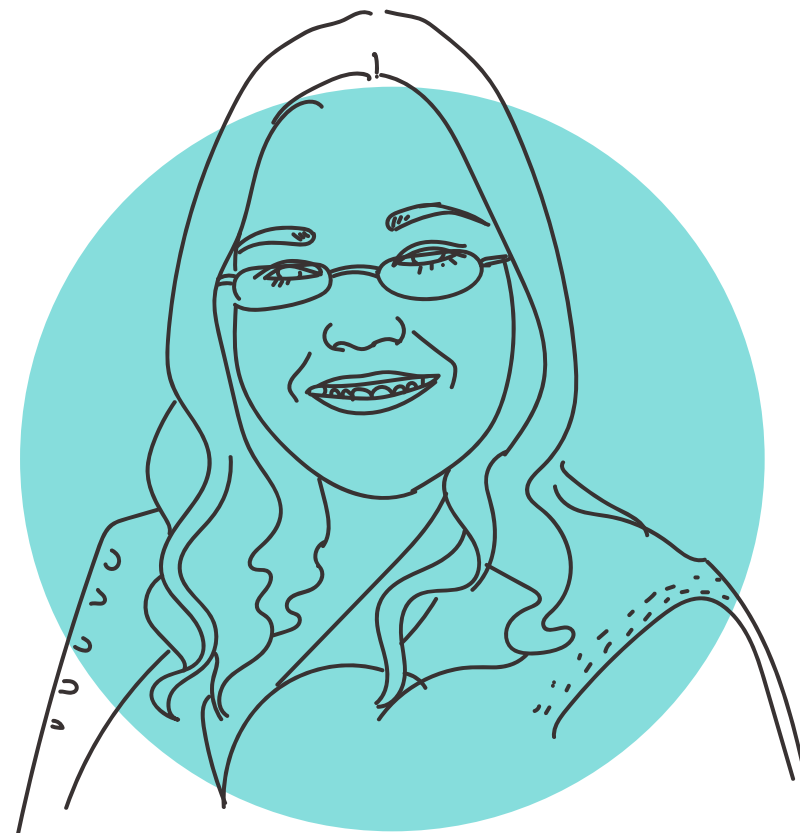
Scaling up



The Impact

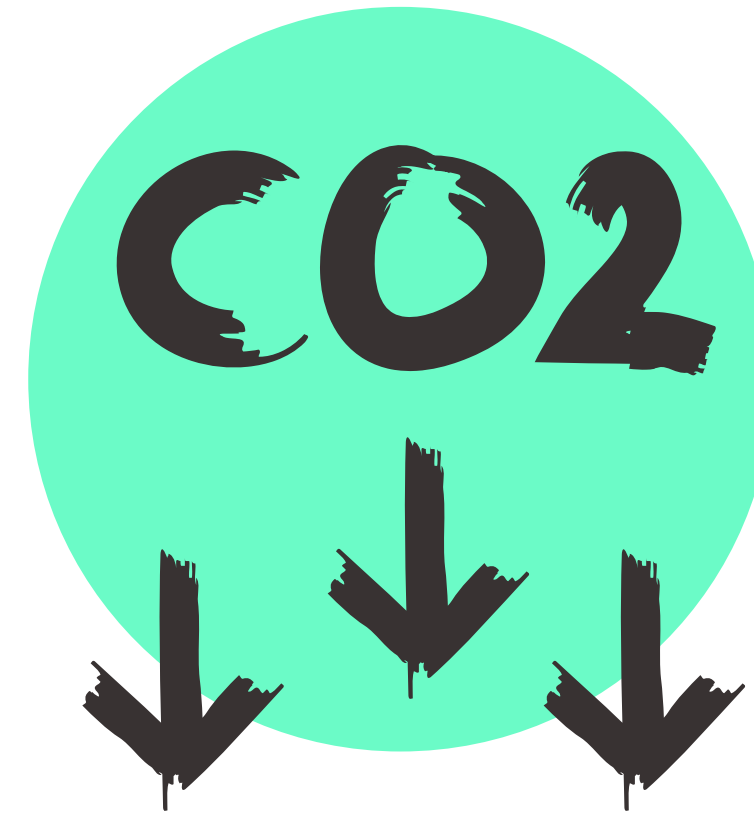


The Metrics



Education

Student's level of awareness and motivation to take climate action



Environmental

The amount of CO2 saved through individual actions and collective projects.



Program

The number of students enrolled in the program and number of projects

Carbon Neutral Generation

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References

1. HARGREAVES, A. and SHIRLEY, D. 2009. The Fourth Way: The Inspiring Future for Educational Change. USA: Corwin.
2. OFFICIAL STATISTICS OF FINLAND (OSF). 2019. Education Providers and Educational Institutions. Helsinki: Statistics Finland.
3. SAHLBERG. P. 2011. The Fourth Way of Finland. Springer.
4. SITRA. 2020. Sitra Lifestyle Test. Sitra Website.
Accessed: 13/05/20. Available at: <https://lifestyletest.sitra.fi/>
5. SUSLA APP. 2020. Susla Game. Susla App Website.
Accessed: 13/05/20. Available at: <https://susla.app>
6. UNESCO. 2016. Getting Climate Ready: a Guide for Schools on Climate Action. France: Unesco.
Accessed: 13/05/20. Available at: <https://unesdoc.unesco.org>

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