



KESKKONNAAMET



Non-formal nature education system in Estonia

Nele Sõber

Keskkonnaamet / Environmental Board

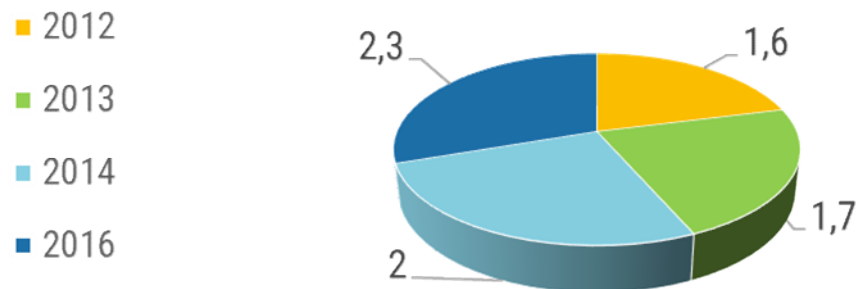
September 2018

Estonia

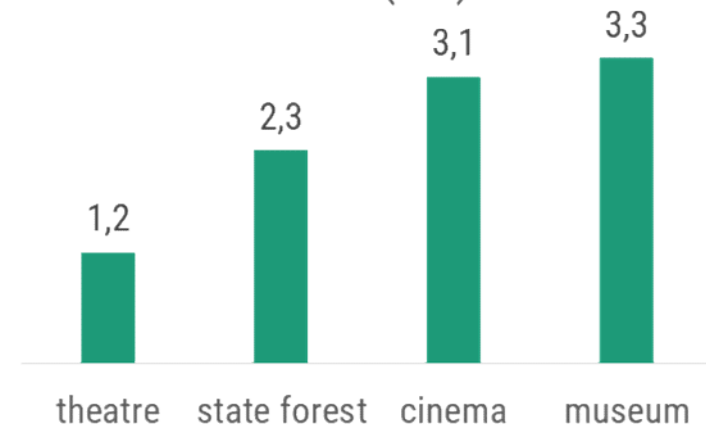
- Country of forests and wetlands (70% of territory)
- Population density- 31 inhabitants/km²
- Urban population- 69%



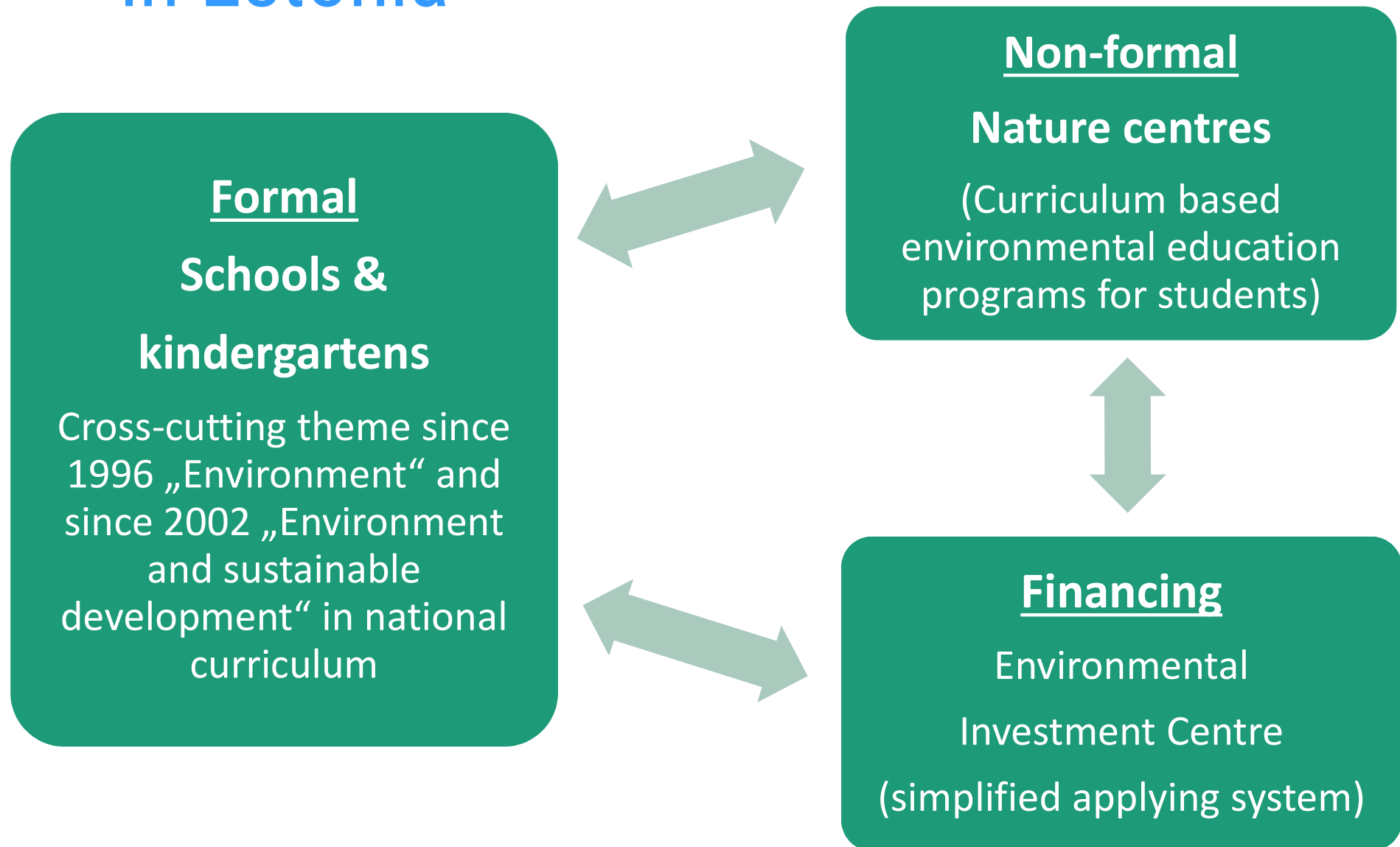
visits to state recreation & conservation areas (mil)



visits (mil)



Environmental education network in Estonia



Non-formal nature education

Public

1. Environmental Board
2. State Forest Management Centre
3. Nature schools

NGO

Providers rely on schools who receive funding from national environmental fund – Environmental Investment Centre

Nature & environmental centres

EESTI LOODUS- JA KESKKONNAHARIDUSKESKUSED

www.keskkonnaharidus.ee

Loodusvaatlused
ja harrastusteadus



Püsinäitused
ja rändnäitused



Sündmused - teemapäevad,
perepäevad, loodusõhtud,
viktoriinid, töötod



Õppeprogrammid



Huviringid



Loodusretked



Looduslaagrid



Keskkonnahariduse portaalis www.keskkonnaharidus.ee:

- üle 140 loodus- ja keskkonna-
hariduskeskuse
- üle 1000 erineva õppeprogrammi
- õppematerjalid
- videopank
- uudised, sündmused
- keskkonnahariduse võrgustik

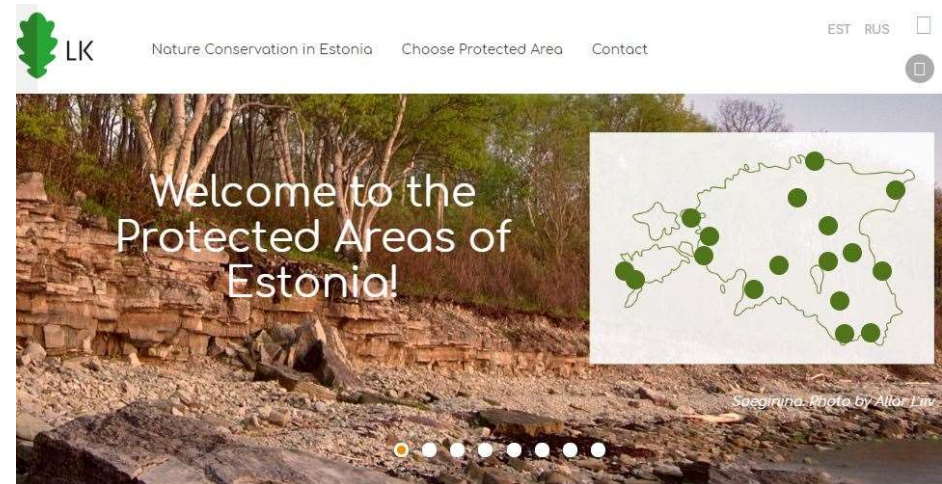
Keskkonnahariduskeskused:

- Keskkonnaamet - 17
- Riigimetsa Majandamise Keskus - 18
- Muuseumid - 19
- MTÜ, SA, FIE, KOV-asutus jm - 90

*andmed keskkonnahariduse portaalist 08.2018

Environmental education department

- 15 counties
- 18 specialist
- Programs indoors/outdoors
- Junior Ranger
- Events such as Nature Conservation Month, Open Nature Centres Day, Information Days
- Facebook page, webpage, expo, information materials





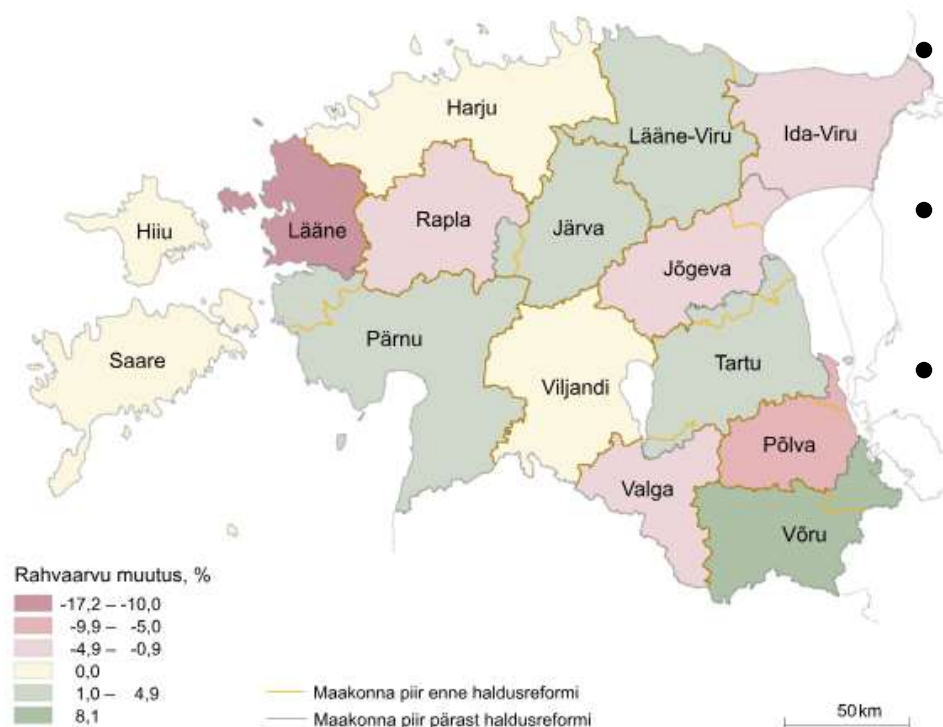
Study programs statistics (2017):

- 1352 programs
- 26759 participants
- Topics: Nature conservation, environmental use, waste management, alien species, water protection etc.
- 20 people/group, 45-90 minutes

Over the past years, the volume of programs has decreased due to fundings, decrease in number of specialists in certain fields and increase in work load.

Potential customers

- 634 kindergartens with 68 331 kids
- 518 general education schools with 143 550 students
- 41 vocational schools with 25 000 students
- 24 colleges and universities offering higher education with 51 092 students



Totally educational system involves 287 973 students – 22% of the population.

Governance reform / local governments 213 --> 79

High support for environmental education in 2010-2015



- new buildings for environmental centers
- renovated centers
- renewed exhibitions and equipment
- teacher training and public awareness
- teaching tools, exhibitions for borrowing
- environmental education webpage
- virtual tracks

TEACHING TOOLS AND MATERIALS FOR FREE BORROWING

E- MATERIALS: <http://avastusrada.ee> <http://www.keskkonnakompass.ee> <http://e.loodus.ee>

MORE INFORMATION: <http://www.keskkonnaharidus.ee/oppematerjalid/oppevahendid/>



CLAY HOUSE MODEL



FAIR TRADE GAME



PEAT BOX



LOTTE NATURE GAME



WHERE IS LIFE MORE SUSTAINABLE?



MEADOW SUITCASE

Exhibitions

- ✓ Nature protection
- ✓ Gulf of Finland
- ✓ Waste management



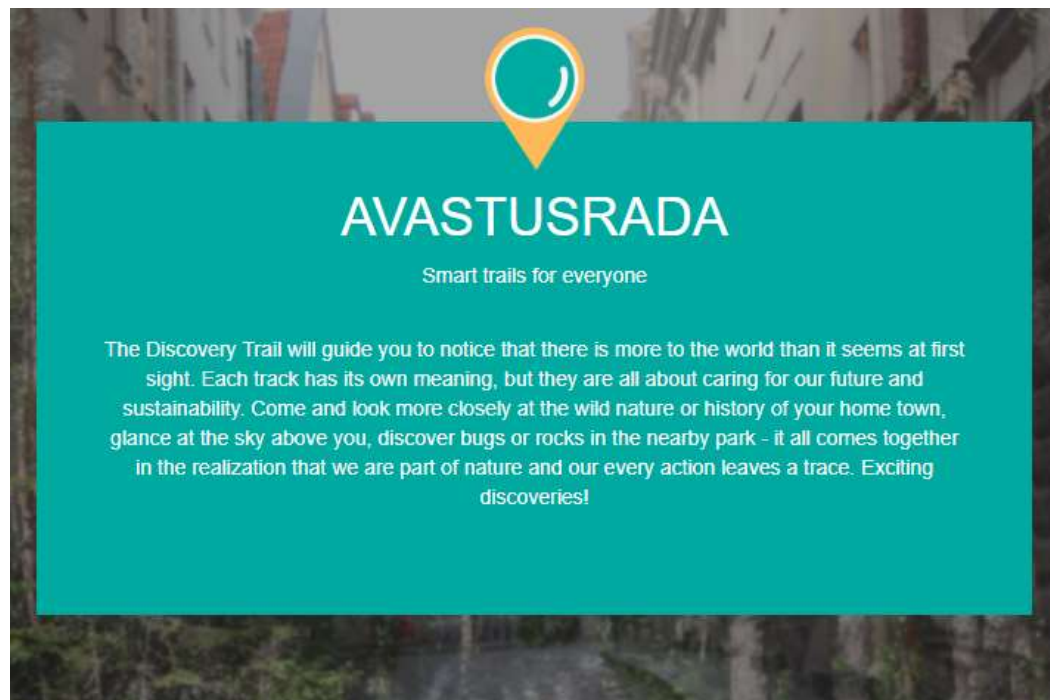
Junior Ranger program



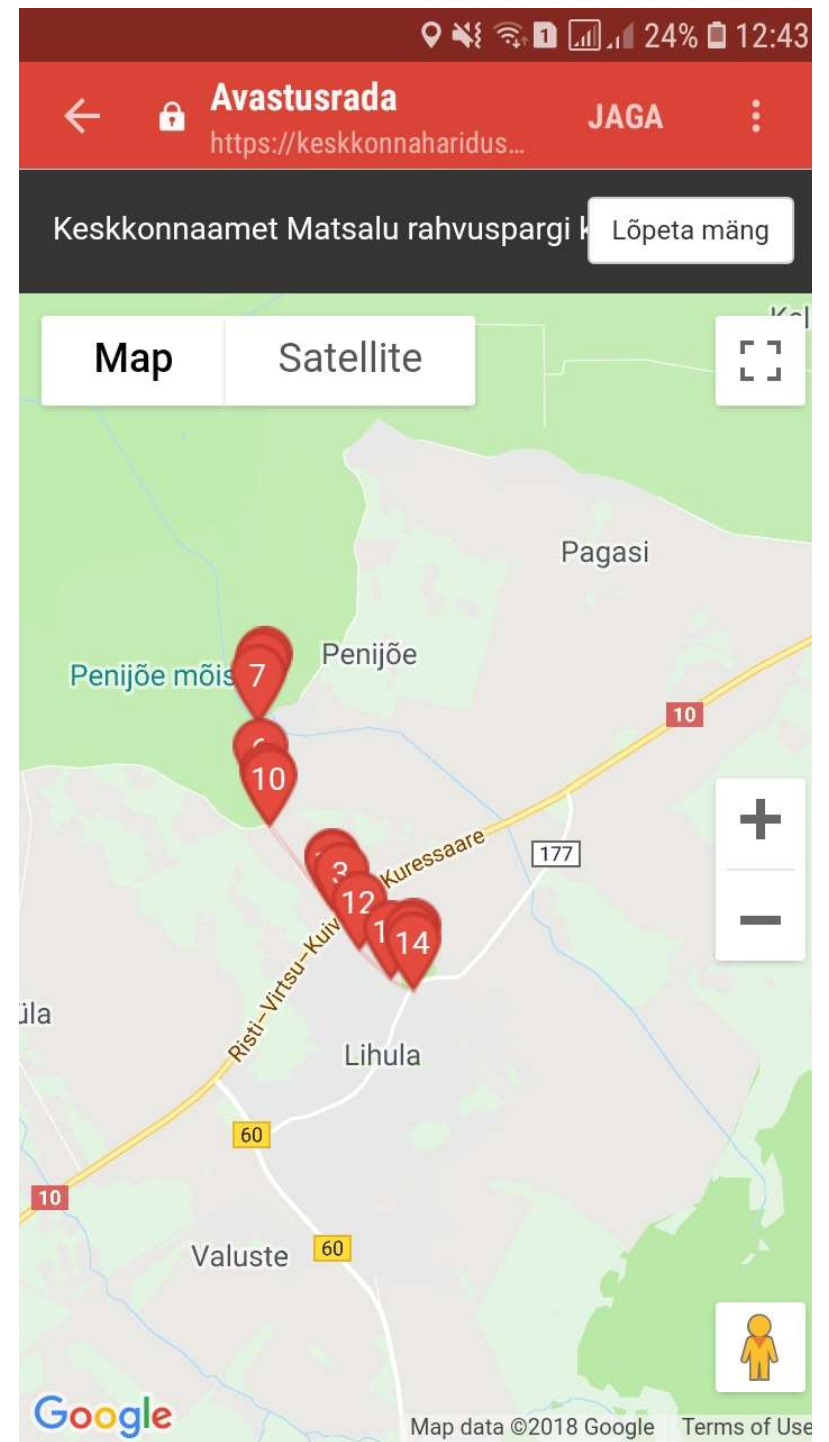
- Lahemaa NP - 2004
- Vilsandi NP - 2012
- Matsalu NP - 2013
- Karula NP - 2014
- Soomaa NP - 2015



Around 100 (local) children every year (summer course, autumn and spring seminars)



Smart trail / <https://avastusrada.ee/en>



Keskonnaharidus 
Shapes the way of thinking

LOG IN

Search...

NEWS AND EVENTS VIDEO BANK CENTRES CONTACT US

Keskonnaharidus.ee mediates information on environmental education opportunities in Estonia.

We aim to support teachers and nature enthusiasts by providing information on nature centres, educational programmes and educational materials.

CENTRES

Kaart Satelliit

Map showing locations of nature centres in Estonia, including Paldiski, Keila, Järvi, Rakvere, Tapa, Haapsalu, Rõõla, Jõhvi, Narva, Kingissepp, and Slantsõ.

CALENDAR: SEPTEMBER 2018

Su	Mo	Tu	We	Th	Fr	Sa
						1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30						

SYNCHRONIZE WITH YOUR CALENDAR

Environmental Education Portal / <https://www.keskonnaharidus.ee/en/>

Eco-schools program

Foundation for Environmental Education

<http://www.fee.global/>

Globally:

- ✓ 51000 educational institutions from 67 countries

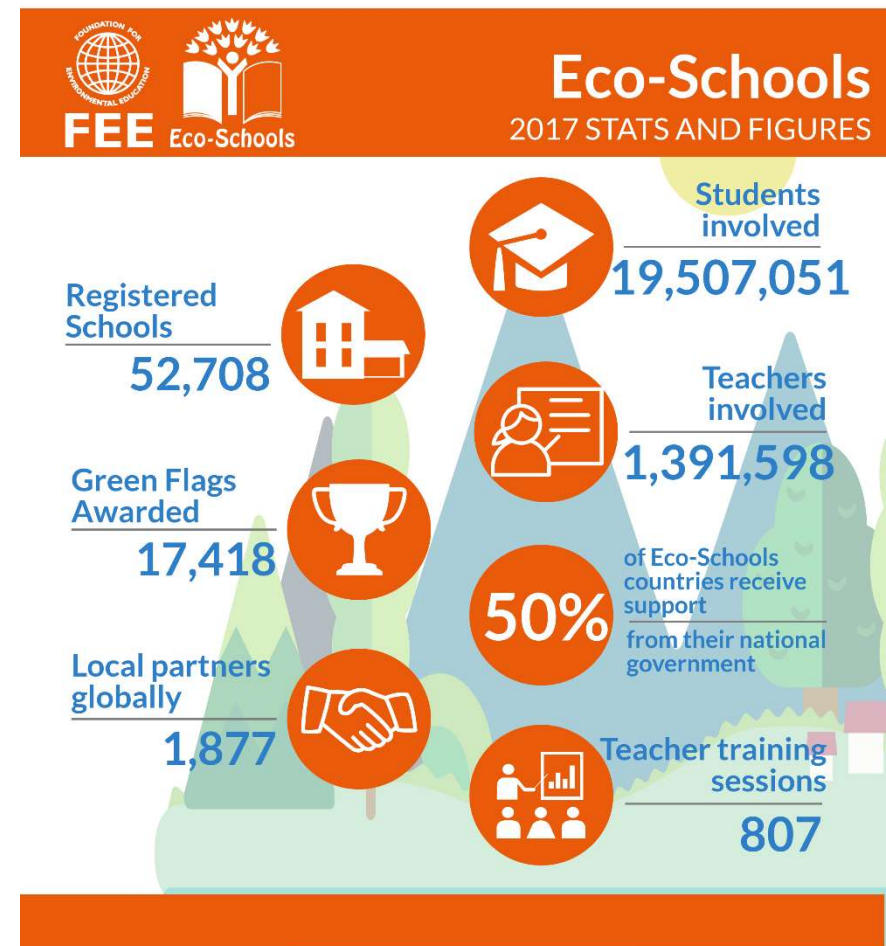
Estonia:

- ✓ 54 educational institutions (August 2018)
- ✓ Schools, kindergartens, hobby schools, environmental education centres



Eco-schools structural elements

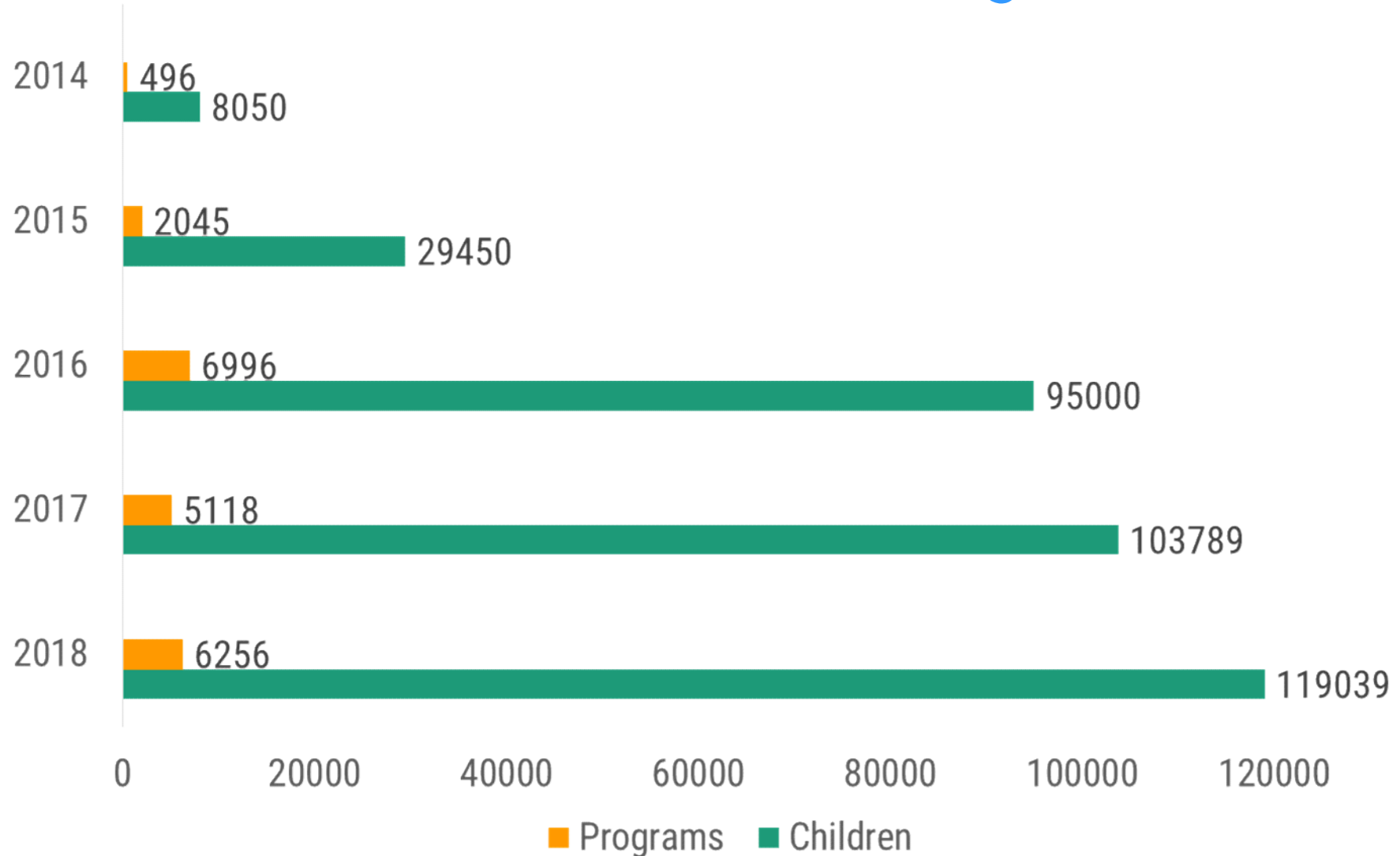
- ✓ **7 steps methodology** - series of carefully engineered measures to help schools maximise the success of their Eco-School ambitions
- ✓ Integrating Eco-Schools **Themes** in the school studies
- ✓ Applying for **Green Flag**



Environmental education and awareness action plan 2019-2022

1. Need for change!
2. Cooperation memorandum in 2017 to create environmental education action plan.
3. Find solutions for efficient and sustainable development in environmental education.

Challenge 1 – schools rely too much on external funding

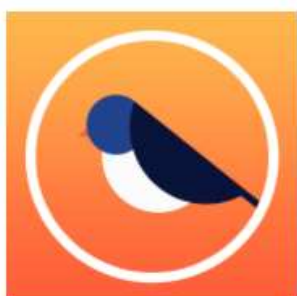


Challenge 2 – motivating youth to become Junior Rangers

Challenges	Problems
Having fun and exciting program is not enough	Few children
Needs systematic approach and a leader	Participation fee
Mouth-to-mouth advertisement	Other activities
Means of communication	Is not sexy or „bling-bling“
	Peer pressure


Challenge 3 – engaging inhabitants to increase their environmental awareness

- ✓ Nature observation database and App, <http://loodus.keskkonnainfo.ee/lva/>
- ✓ eBiodiversity, <http://elurikkus.ut.ee>
- ✓ NatureGate, <http://e.loodus.ee/>
- ✓ Environment Compass, www.keskkonnakompass.ee
- ✓ My Naturesound App, <http://www.loodusheli.ee/>
- ✓ Other Apps: Estonian birds, amphibians, fishes, mushrooms etc



Challenge 4 – Quality of programs

- Estonia is in the process of working out a method in order to qualify priority themes of environmental education providers.
- Program quality will be assessed externally and will be linked with funding.



Thank you for your attention!

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