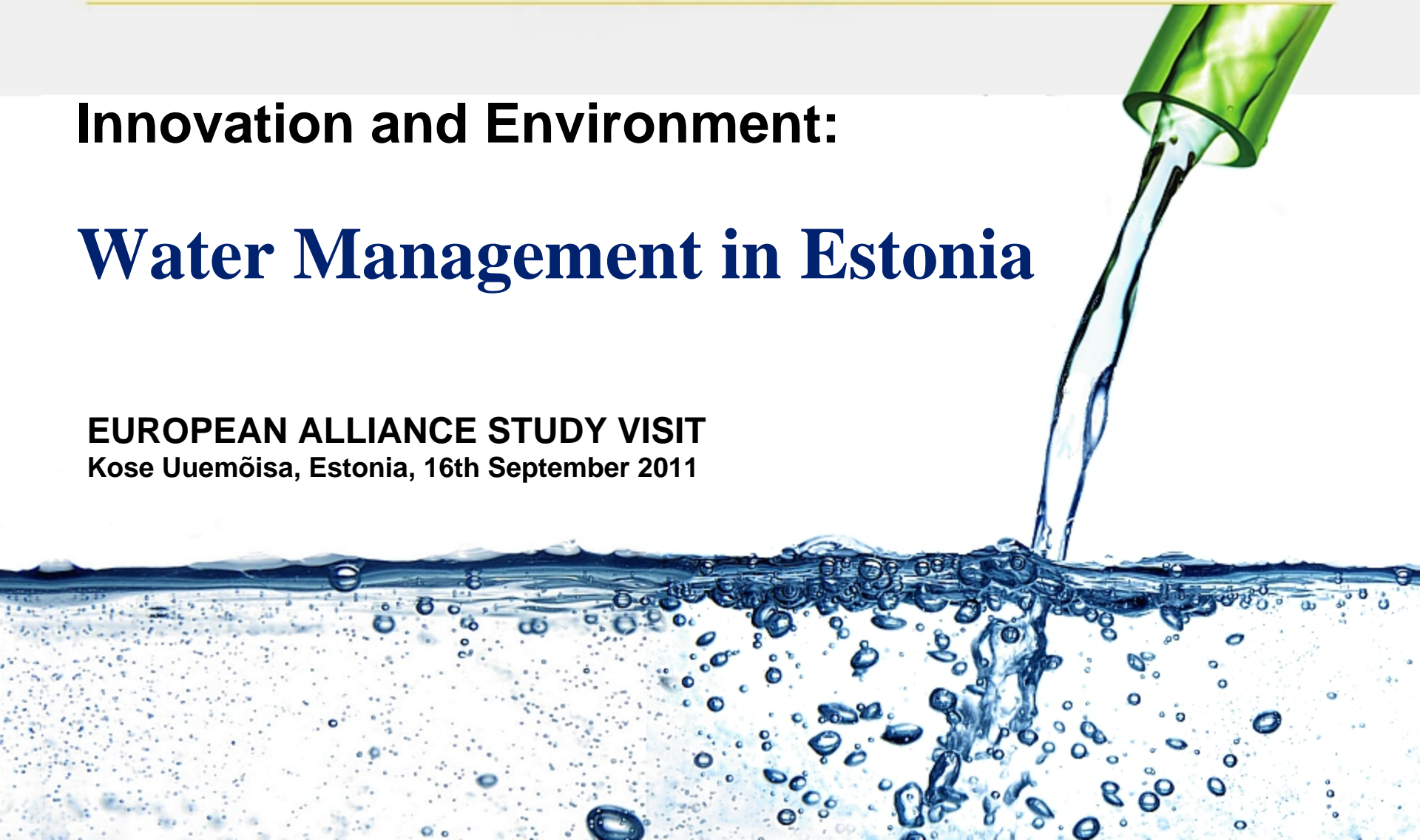



Innovation and Environment: Water Management in Estonia

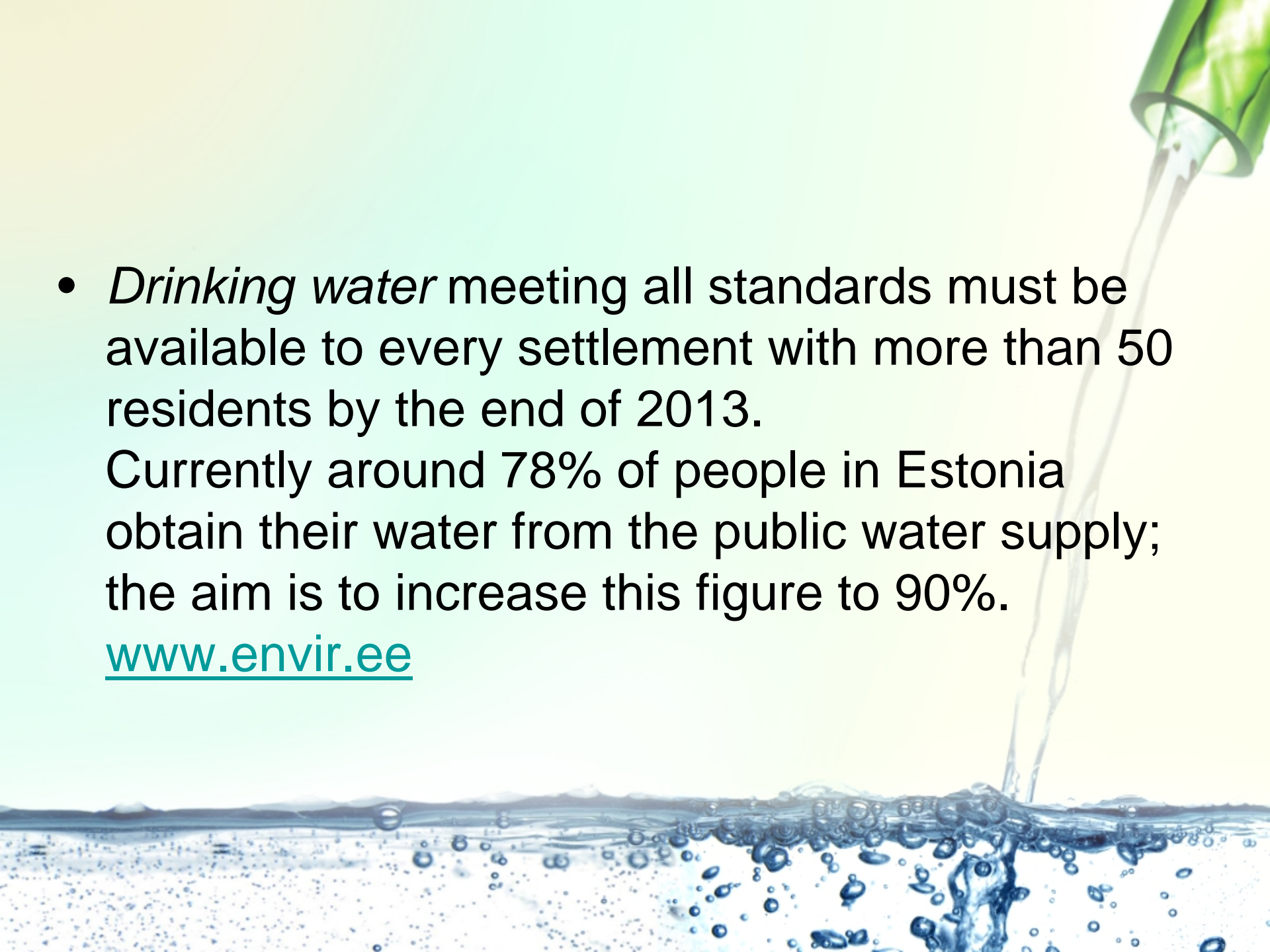
EUROPEAN ALLIANCE STUDY VISIT
Kose Uuemõisa, Estonia, 16th September 2011



Drinking water and waste water projects in Jõgeva Rural Municipality supported by EU funding.

Dr. Saima Kalev, member of council of Jõgeva Rural Municipality

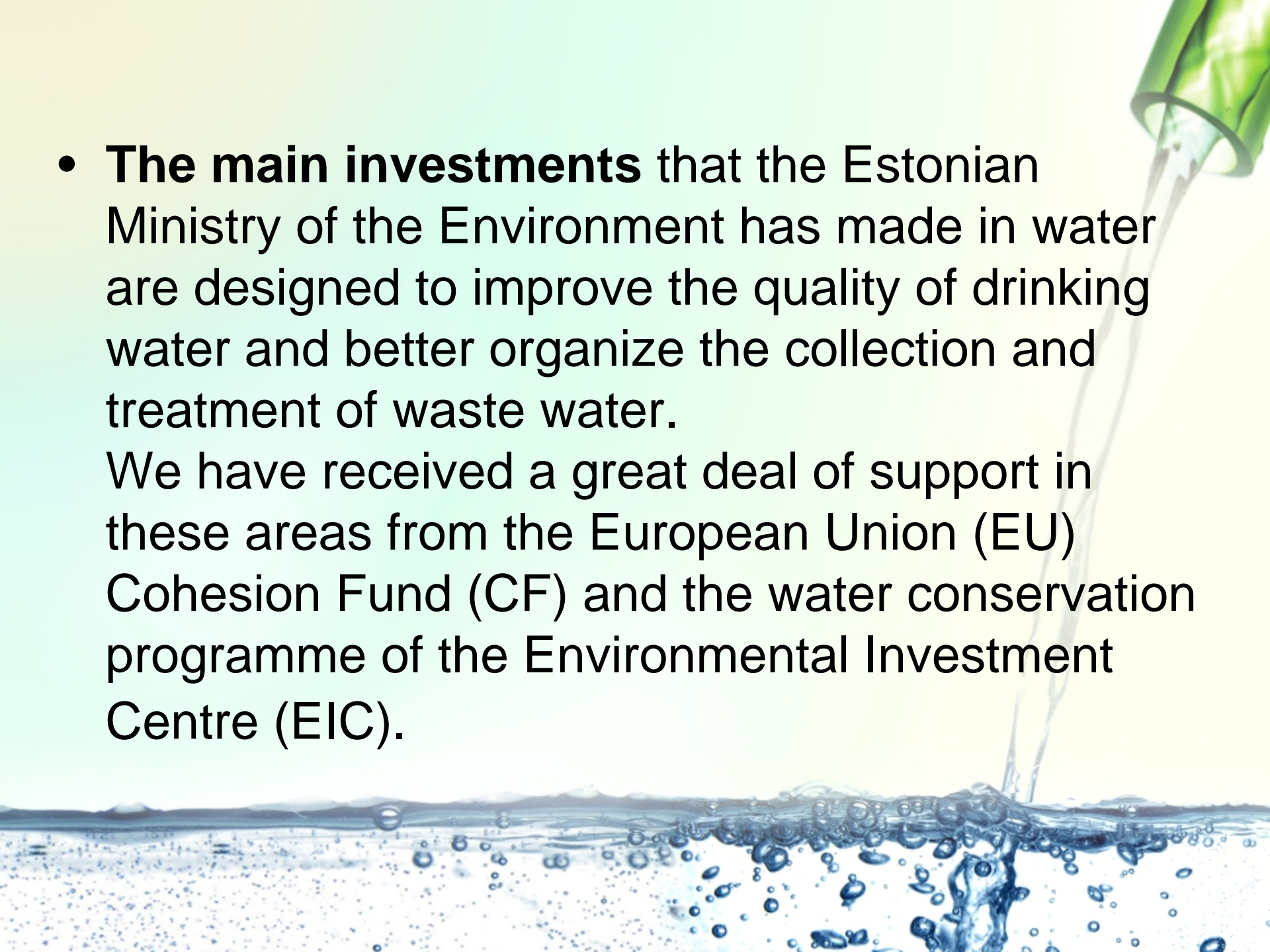
- 
- Estonia is actively involved in drinking water and waste water projects supported by EU funding. We have taken on the obligation of guaranteeing the collection and proper treatment of waste water from all residential areas in *waste water* collection zones with a pollution load of more than 2000 IE by the end of 2010 (*IE being the unit of pollution load, with 1 IE equating to one person in a non-industrial area*). www.envir.ee

- 
- *Drinking water* meeting all standards must be available to every settlement with more than 50 residents by the end of 2013.

Currently around 78% of people in Estonia obtain their water from the public water supply; the aim is to increase this figure to 90%.

www.envir.ee

- **The main investments** that the Estonian Ministry of the Environment has made in water are designed to improve the quality of drinking water and better organize the collection and treatment of waste water.
We have received a great deal of support in these areas from the European Union (EU) Cohesion Fund (CF) and the water conservation programme of the Environmental Investment Centre (EIC).

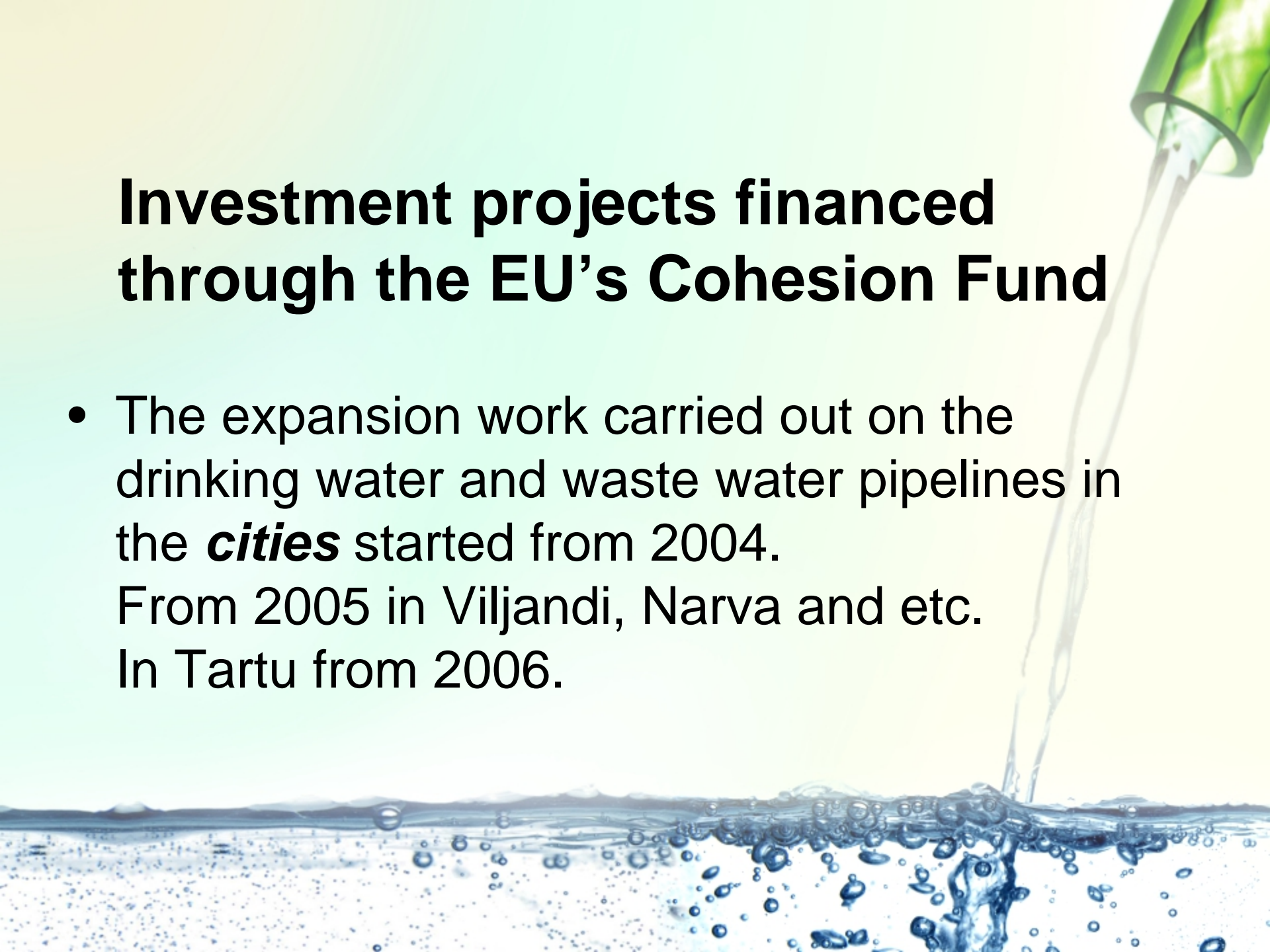


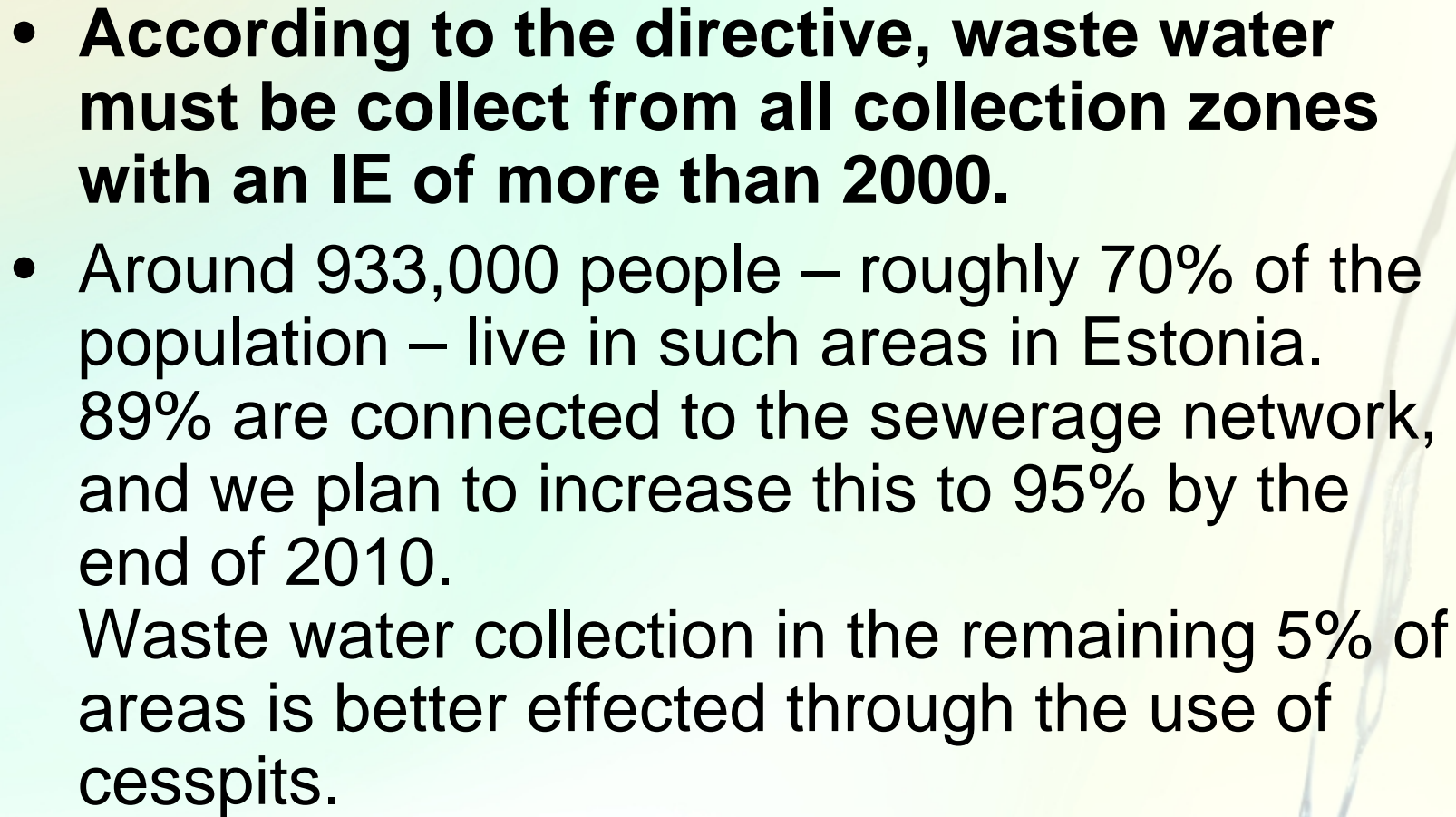
- We have also been assisted in controlling agricultural pollution by financing obtained through the Estonian Agricultural Registers and Information Board (EARIB) from the European Agricultural Guidance and Guarantee Fund (EAGGF). www.envir.ee

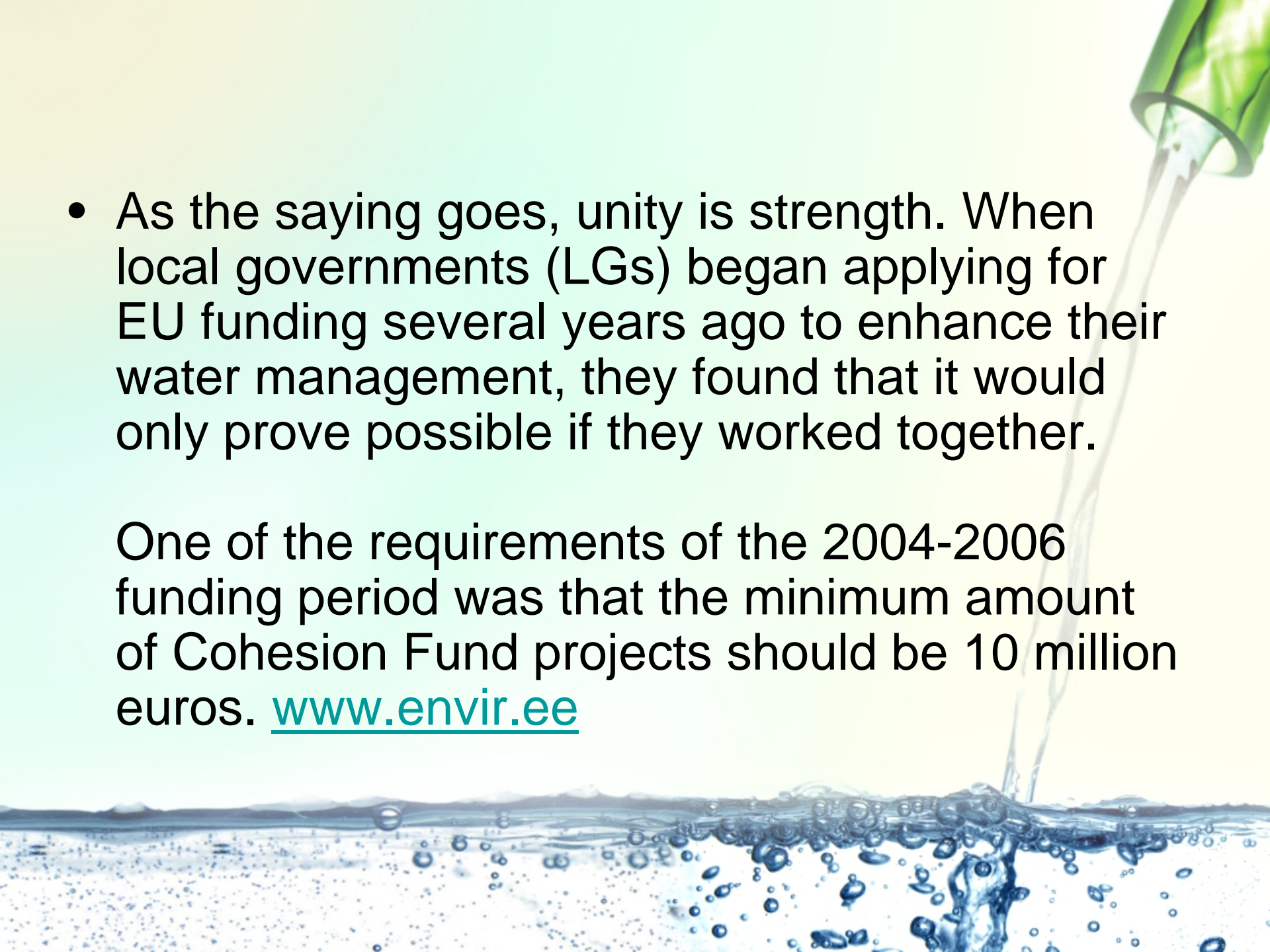


Investment projects financed through the EU's Cohesion Fund

- The expansion work carried out on the drinking water and waste water pipelines in the ***cities*** started from 2004. From 2005 in Viljandi, Narva and etc. In Tartu from 2006.



- 
- **According to the directive, waste water must be collect from all collection zones with an IE of more than 2000.**
 - Around 933,000 people – roughly 70% of the population – live in such areas in Estonia. 89% are connected to the sewerage network, and we plan to increase this to 95% by the end of 2010.
Waste water collection in the remaining 5% of areas is better effected through the use of cesspits.

- 
- A green water tap is shown in the top right corner, pouring a stream of water into a pool of water below. The water is splashing, creating many small bubbles and ripples. The background is a light blue gradient.
- As the saying goes, unity is strength. When local governments (LGs) began applying for EU funding several years ago to enhance their water management, they found that it would only prove possible if they worked together.

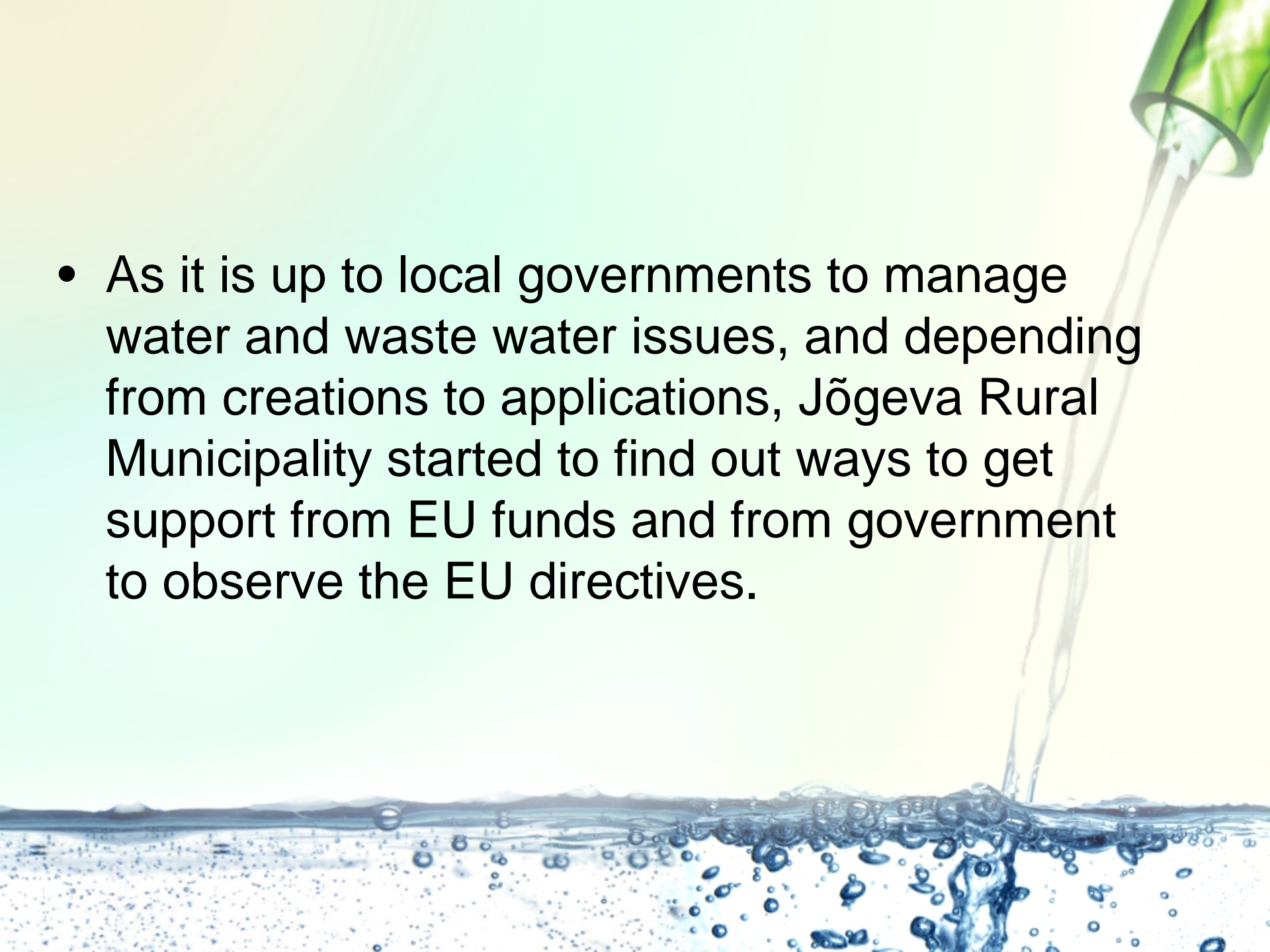
One of the requirements of the 2004-2006 funding period was that the minimum amount of Cohesion Fund projects should be 10 million euros. www.envir.ee

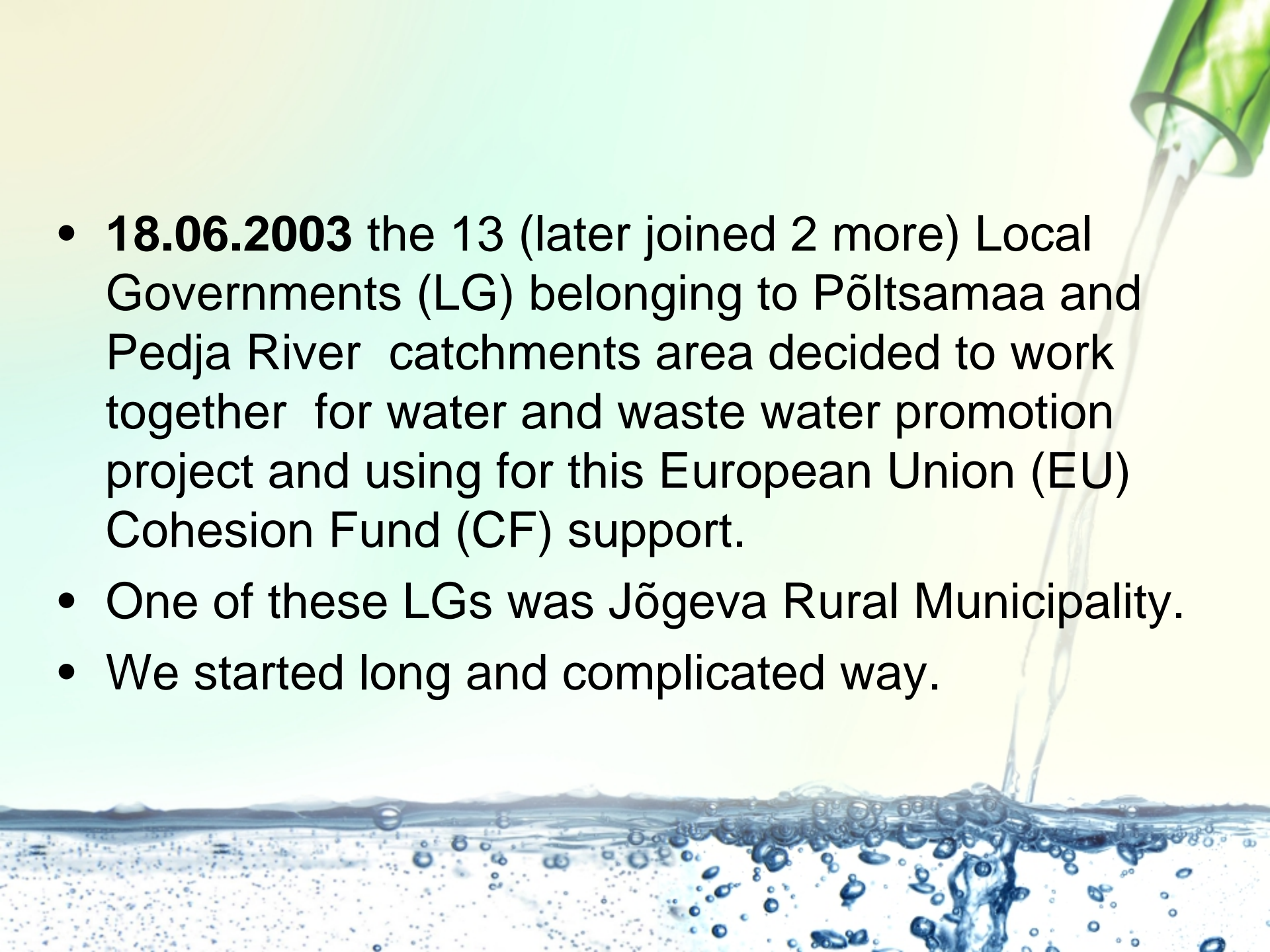
- However, our little local governments (LGs) had no need of such large-scale projects. Instead they came up with large group projects, such as that in the Emajõgi River and Võhandu catchments area.

To get these projects off the ground, the LGs formed joint water companies (coordinated by the Ministry of the Environment) which will begin to manage newly built and renovated systems in the future. www.envir.ee



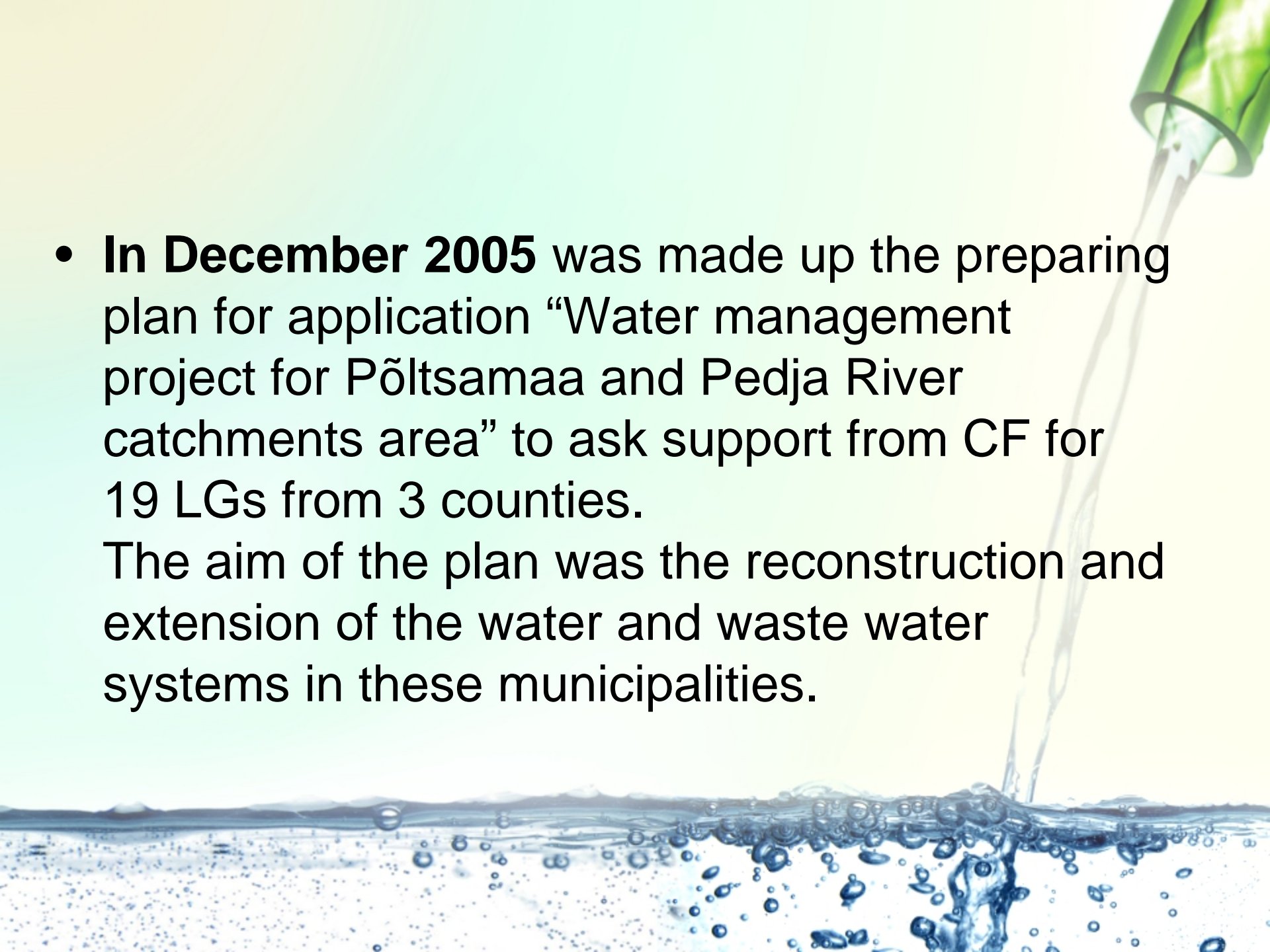
- As it is up to local governments to manage water and waste water issues, and depending from creations to applications, Jõgeva Rural Municipality started to find out ways to get support from EU funds and from government to observe the EU directives.

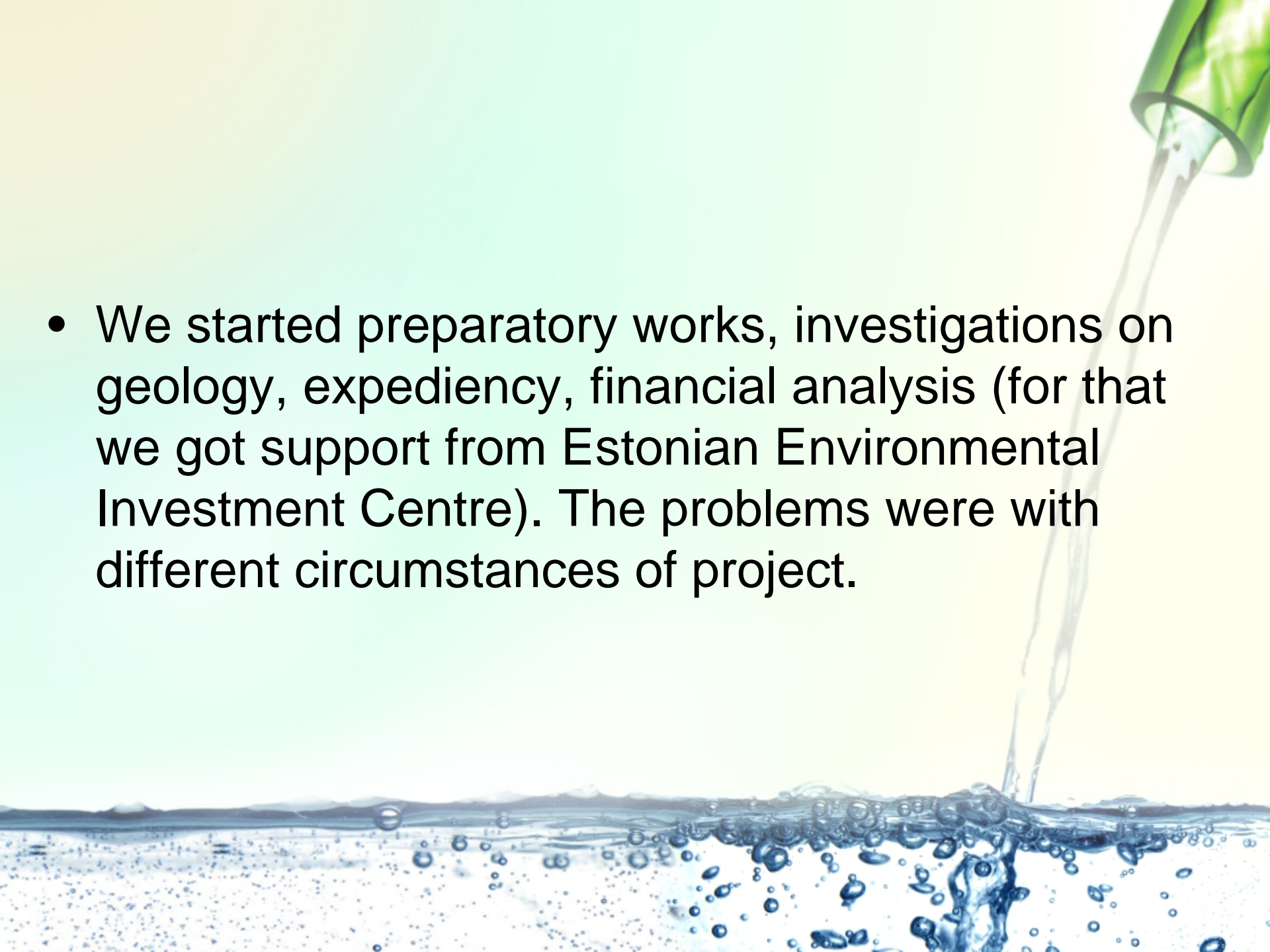


- 
- **18.06.2003** the 13 (later joined 2 more) Local Governments (LG) belonging to Põltsamaa and Pedja River catchments area decided to work together for water and waste water promotion project and using for this European Union (EU) Cohesion Fund (CF) support.
 - One of these LGs was Jõgeva Rural Municipality.
 - We started long and complicated way.

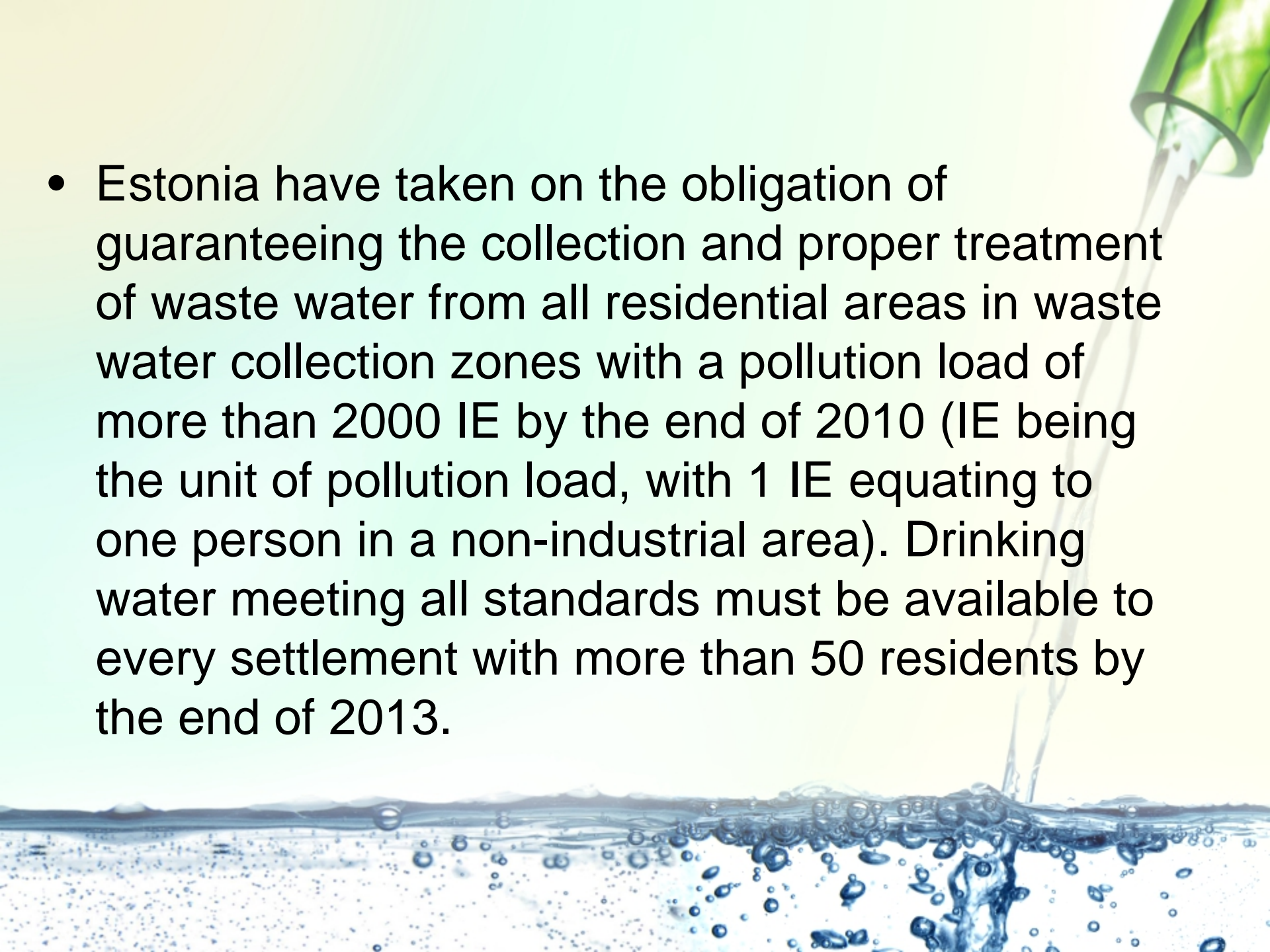
- **In December 2005** was made up the preparing plan for application “Water management project for Põltsamaa and Pedja River catchments area” to ask support from CF for 19 LGs from 3 counties.

The aim of the plan was the reconstruction and extension of the water and waste water systems in these municipalities.



- 
- A green glass bottle is shown in the upper right corner, pouring a stream of clear water into a pool of water below. The water creates a dynamic splash with many small, clear bubbles rising to the surface. The background is a soft, light blue gradient, suggesting a clear sky or a clean environment.
- We started preparatory works, investigations on geology, expediency, financial analysis (for that we got support from Estonian Environmental Investment Centre). The problems were with different circumstances of project.

- Estonia have taken on the obligation of guaranteeing the collection and proper treatment of waste water from all residential areas in waste water collection zones with a pollution load of more than 2000 IE by the end of 2010 (IE being the unit of pollution load, with 1 IE equating to one person in a non-industrial area). Drinking water meeting all standards must be available to every settlement with more than 50 residents by the end of 2013.



Jõgeva Rural Municipality

is one of the biggest
in Estonia by area – 458 km².

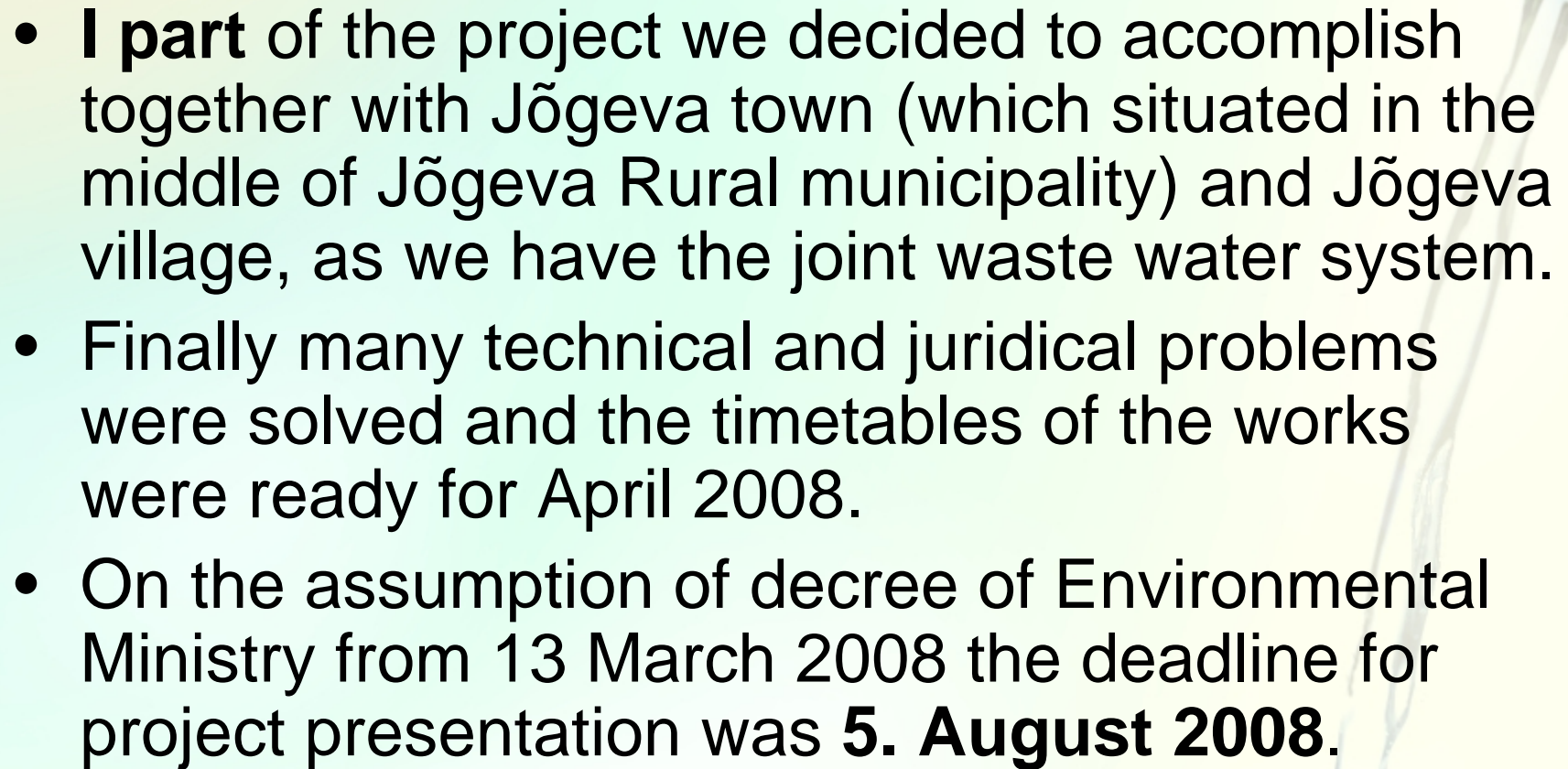
The population is now
about 5000 people.


Municipality consists of
41 territorial units.

Five of those - Jõgeva,
Vaimastvere, Siimusti,

Laiuse and Kuremaa - are big villages
(500 – 800 people).



- 
- A green faucet is shown in the top right corner, pouring a stream of water into a pool of water below. The water is splashing, creating many bubbles and ripples. The background is a light blue gradient.
- **I part** of the project we decided to accomplish together with Jõgeva town (which situated in the middle of Jõgeva Rural municipality) and Jõgeva village, as we have the joint waste water system.
 - Finally many technical and juridical problems were solved and the timetables of the works were ready for April 2008.
 - On the assumption of decree of Environmental Ministry from 13 March 2008 the deadline for project presentation was **5. August 2008.**

- 
- **11.03.2009** we got the confirmation for our project (almost 5 years after start)
 - Realization of the works 17.05 2010 – 16.10 2011 (Real start of the works - spring 2011)
 - Total cost of the project **2 793 492, 45 €**
 - Support from EU **1 845 366, 79 €**
 - From municipality budget **948 125,66 €**

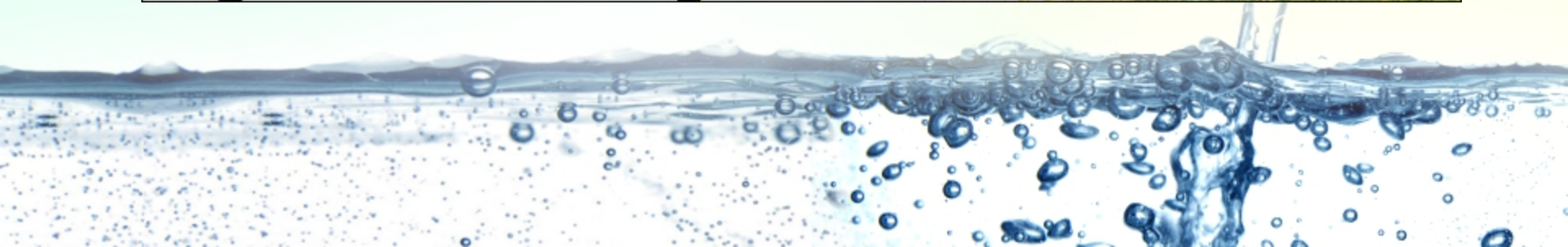


WESICO PROJECT



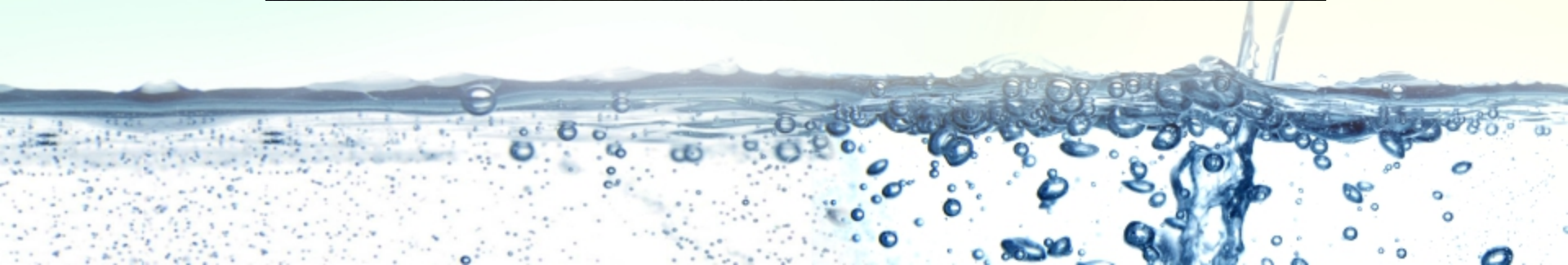
**Jõgeva aleviku
ühisveevärgi ja kanalisatsioonisüsteemide
rekonstrueerimine**


Tellijaja: AS KUREMAA ENVEKO
Töövõtja: OÜ "WESICO PROJECT"
Vastutav isik: JAANUS RÄTSEP 56462643
Tähtaeg: 20.07.2011



- Expansion of the water (1,7 km) and waste water (3,5 km) network, 1 new deep well.
- Reconstruction of the regional water (8,3 km) and waste water network (4 km), 6 deep wells 3 water treatment facilities





- 
- **II project** prepared for 4 smaller villages of Jõgeva Rural Municipality and for one part of Puurmani Rural Municipality (neighbor LG).
 - **17.11.2009** decision about support from EU CF
 - Realisation period of the project 11.11.2010 – 11.01.2013

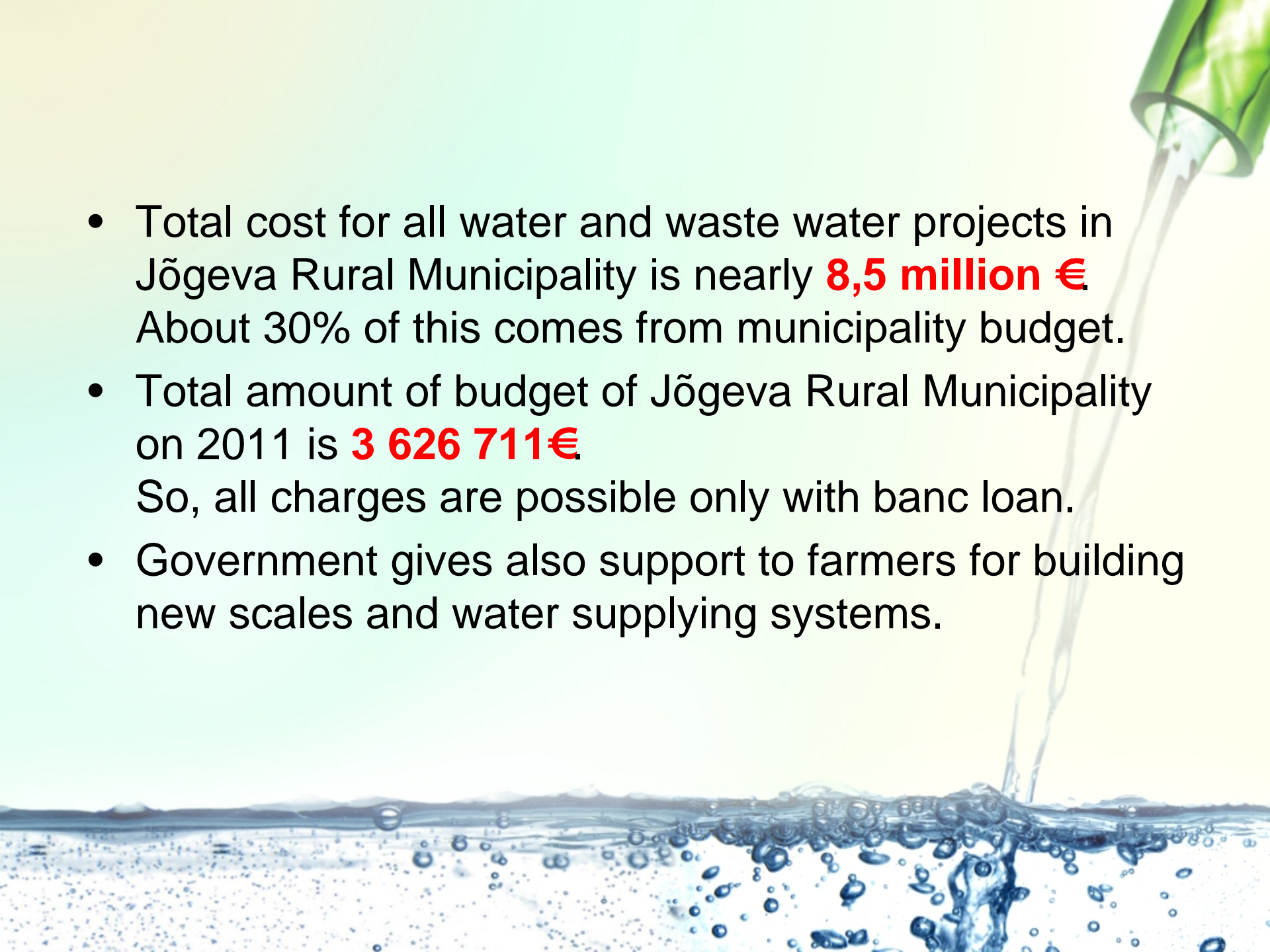
- 
- Total cost of the project - **6 121 610,38 €**
 - Support from EU - **3 631 268,77 €**
through Environmental Investment Centre
 - From Jõgeva Rural Municipality budget -
472 210,00 €
 - From trade association ENVEKO (communal) -
829 261,12 €
 - From Puurmani Rural Municipality budget -
168 602,12 €



Reconstruction of the regional water pipelines 14,97 km and waste water pipelines 14,8 km.
5 water treatment and
4 waste water treatment facilities.

15 pump houses
for clean water
and 3 for waste water.



- 
- Total cost for all water and waste water projects in Jõgeva Rural Municipality is nearly **8,5 million €**. About 30% of this comes from municipality budget.
 - Total amount of budget of Jõgeva Rural Municipality on 2011 is **3 626 711€**.
So, all charges are possible only with banc loan.
 - Government gives also support to farmers for building new scales and water supplying systems.

Thank you for your attention

