

City Challenge Report Card				
<b>The City Challenge Theme</b>		Ledeč, city without waste 4. From waste disposal to Resource Efficiency – Circular Economy at the City Scale		
<b>School/Summer School</b>		ZŠ Ledeč nad Sázavou	<b>Teacher(s) / Disciplines</b>	Simandl Michal – Bio, Chem Holatová Petra - M, Bio Kubátová Monika – 1. grade Pešek Josef – Inf, Geo, Bio
<b>The planning phase</b>	Problem (The What-question)	Waste– problematika odpadů v Ledči nad Sázavou		
	Relevance (The Why question)	Our pupils are not indifferent to our city, they were bothered by overcrowded containers and the impossibility of sorting some raw materials.		
	Expectation / Hypothesis	Our aim was to improve waste policy in the city and to propose possible solutions.		
	Methods (The How-question <sup>1</sup> )	<ul style="list-style-type: none"> <li>- we found out how local citizens perceive waste issues by means of questionnaires on the topic of waste</li> <li>- we communicated with citizens on social media</li> <li>- we contacted municipal officials and waste management companies</li> <li>- we mapped the terrain, took photos of containers and problem areas</li> <li>- we created a unique map of containers in our city</li> <li>- we organised open events for the public</li> </ul>		
	Participants <sup>2</sup> (The Who-question)	Ledeč nad Sázavou Municipal office Přemysl Štych - Charles University research team of our school parents of pupils, public		
<b>The implementation phase<sup>3</sup></b>	Activity 1 (e.g. literature, book review)	Study of literature and internet resources We collected and sorted information about waste, waste sorting and recycling problems from available sources on the Internet. We put the information we found on the project website.		
	Activity 2 (e.g. gather data / information)	Mapping of waste containers We documented the waste bins in our city, found their GPS coordinates, and photographed the bins. At the same time, we provided the city with a comprehensive inventory of container locations and pointed out deficiencies. We prepared the basis for the interactive map of waste in Ledec.		
	Activity 3	Survey  We have created a poll for the citizens of Ledec on the topic of waste. We surveyed the residents' satisfaction with the waste policy of the city		
	Activity 4	Promotion We created a website and a Facebook page for the project to make ourselves known. Not only did we point out the problems with waste in our city, but we also offered citizens interesting information about the issue, shared links to inspiring companies or people who have something to offer. We tried to educate, to discuss.		
	Activity 5	Open action 1 We combined the Earth Day celebrations with a town clean-up during the Clean		

<sup>1</sup> Please provide the keywords regarding both, the teaching approach and the research approach

<sup>2</sup> E.g. the science team members

<sup>3</sup> Please provide support if possible through pictures, sketches, charts, student reflection or such

		Vysočina event. A Pytlomat, which our pupils made, was prepared for the public. To draw attention to the event, we installed a Litter Trail around the school. Each piece of rubbish was properly described, we gave information about its recycling and how long it takes to decompose in nature. The descriptions were accompanied by QR codes that linked to interesting websites with further information.
	Activity 6	Open Action 2 The litter trail was positively evaluated by the public, so we decided to use it for a long-term holiday event in cooperation with Pavlov Rescue Station. We added an interesting quiz about waste sorting to the exhibition.
	Activity 7	Interactive map In cooperation with experts from Charles University in Prague, we have created an interactive map of waste containers in Ledec.
	City Challenge solution	Interactive map of waste bins. On the map, residents of the city can find where the collection bins for each type of waste are located. <a href="http://tridenyodpadledec.wz.cz/">http://tridenyodpadledec.wz.cz/</a>
The documentation and reporting phase	Group or class (e.g. reports, posters etc)	Pytlomat - a "vending machine" where participants could pick up garbage bags Waste trail Video reportage - Pulchra team in Ledec
	School (e.g. school web page, school newspaper)	Facebook website: <a href="https://www.facebook.com/projekt.pulchra">https://www.facebook.com/projekt.pulchra</a> website: <a href="https://ledec-odpadky.webnode.cz/">https://ledec-odpadky.webnode.cz/</a> Ledec local magazine/newletter
	Public (e.g. meeting, news media)	Articles in the Ledec Newsletter and on the Ledec Primary School website  Poster Waste Trail  Earth Day + Litter Trail  Pavlov station + quiz + rubbish exhibition

**Room for additional explanations (some feedbacks on main problemes found and related solutions, or other observations are very appreciated)**

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