

City Challenge Report Card			
The City Challenge Theme		Happy Socks Team and Bird Houses 4. From waste disposal to Resource Efficiency – Circular Economy at the City Scale	
School/Summer School		ZŠ a MŠ Hradec Králové, Úprkova 1	Teacher(s) / Disciplines Eva Kottová – Biology, chemistry, Ch Jitka Marecková – Biology, chemistry Aleš Hladík - Czech language, citizenship and family education
The planning phase	Problem (The What-question)	The problem we chose for the PULCHRA project was our school garden, which is open to the public and where pupils and citizens from the surrounding area spend quite a lot of time.	
	Relevance (The Why question)	We chose this space because of the high number of visitors and also because nothing new has been done here for a long time. We also wanted to increase the biodiversity of the place and to use research to bring information about the importance of greenery in the city.	
	Expectation / Hypothesis	Our goal was to equip the garden with bird houses for different bird species, repair and modify the insect hotel so that the insects would be pleased to stay with us. The aim of the research was that the results help us to set everything up correctly.	
	Methods (The How-question ¹)	<ol style="list-style-type: none"> 1. Discussion with the team - who, what, how, why 2. Research - took place in 2 phases - theoretical, in the form of on-line workshops with an expert consultant from the Charles University - Josef Laštovička and practical, after returning to school after COVID break, we measured temperatures in different places in the garden. 3. Presentation of the results to the public, other pupils and teachers 4. Open event - with the help of other pupils and parents - installing bird boxes, repairing educational signs on the trail, refurbishing the insect hotel 	
	Participants ² (The Who-question)	3 teachers throughout the project + 4 more during events 12 pupils throughout + 60 at events 10 parents Expert from the Charles University	
The implementation phase³	Activity 1 (e.g. literature, book review)	Establishment of the Happy Socks team, assignment of tasks. Girls from the seventh grade set up an instagram project, where they contribute actively on a regular basis. https://www.instagram.com/pulchra_uprkova/	
	Activity 2 (e.g. gather data / information)	Workshops with our scientific consultant were held online, 6 of them. Here we learned how to do online map research using https://www.sentinel-hub.com/	
	Activity 3	Field research around the school where we chose 3 different locations - a concrete surface in the sun, a grassy surface and a shady woodland and measured temperatures using a conventional and a soil thermometer.	
	Activity 4	Comparison of results - we compared what we measured and what we found with the sentinel-hub.	
	Activity 5	Open event - construction and placement of 6 bird houses, repair of signboards on our nature trail "Czech Landscape", modification of the insect hotel. With the presence and help of pupils, and the public.	

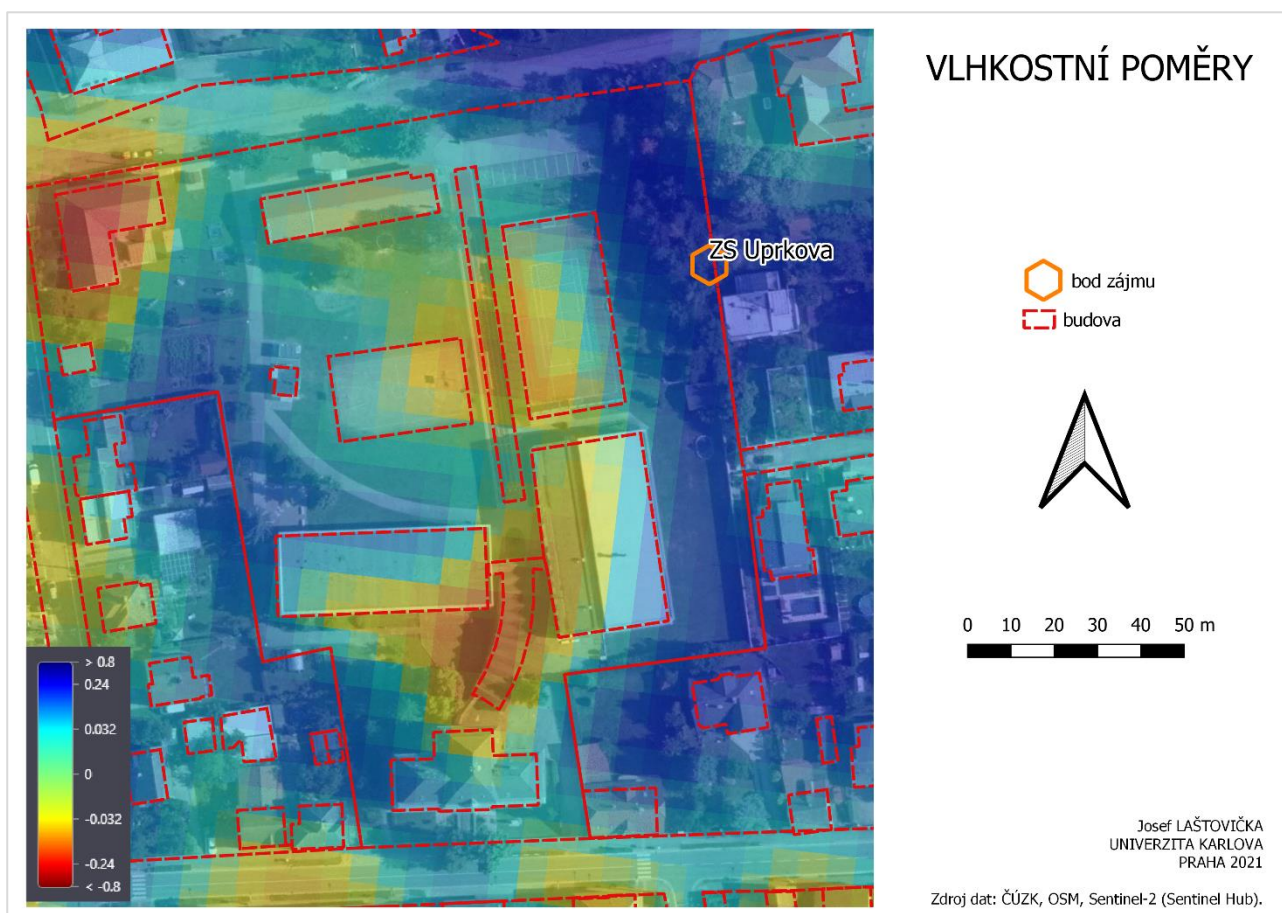
¹ Please provide the keywords regarding both, the teaching approach and the research approach

² E.g. the science team members

³ Please provide support if possible through pictures, sketches, charts, student reflection or such

	City Challenge solution	Construction and placement of 6 bird boxes, one of which will be equipped with a camera for online monitoring of bird life on the school website in spring 2022 repair of 5 educational sign boards Presentation of research results renovation of the insect hotel
The documentation and reporting phase	Group or class (e.g. reports, posters etc)	
	School (e.g. school web page, school newspaper)	school website information in the school magazine instagram https://www.instagram.com/pulchra_uprkova/
	Public (e.g. meeting, news media)	Meeting with the public at the Open Event

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



Map from online research with humidity and temperature conditions at the school

PULCHRA PROJECT
1st City Challenge



Open event - manufacturing of birdhouses
