## Supplementary material 2 – the coding frame

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| AESDF themes | Subthemes | Subthemes definitions | Codes |
| **Action-taking** | direct actions | actions carried out by students, which aim at solving problems related to SD issues | actions in the school surroundings |
| actions in public space |
| indirect actions | actions, which influence others to solve problems related to SD issues | actions in the school surroundings |
| actions in public space |
| **Peer Interaction** | collaboration among team members | collaboration among team members during the program’s implementation (in whole-group or sub-group arrangements) | continuousness of collaboration |
| distribution of collaboration among students |
| specialization within teams |
| collaboration encouragement from the teachers |
| **Community Involvement** | engaged local actors | local actors engaged during the program’s implementation | mayor / municipal council |
| local citizens / entrepreneurs |
| school management |
| parents |
| social interactions | social interactions within the community achieved during the program’s implementation | public presentations done by students |
| student’s interactions with local actors |
| school fairs organized by students |
| **Interdisciplinarity** | environmental perspective | environmental issues discussed/dealt with during the program’s implementation | urban heat island adaptation |
| water management |
| waste management |
| sustainable transport |
| biodiversity in the school surroundings |
| economic perspective | economic aspects of the program’s implementation which were dealt with by students | economic feasibility and budgeting |
| social perspective | social aspects of the program’s implementation which were dealt with by students | social impacts |
| community strengthening |
| local policy |
| **Students’ Leadership** | participation in decision making | involvement of students in the process of making decisions during all stages of the program’s implementation (decisions related to the program) | deciding about joining the program |
| deciding about what actions will be realized |
| deciding during realization of the chosen actions |
| participation in chosen actions | involvement of students in the process of realization of the chosen actions | active involvement in realization of the chosen actions |