## Supplementary material 2 – the coding frame

|  |  |  |  |
| --- | --- | --- | --- |
| 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 |