








Dissemination and exploitation of results SUSTAIN SERBIA



| Activities of the project (as formulated in the 1 st table) | Type of dissemination or exploitation (circulation of booklets, information provided in a meeting, website, articles in the press, etc.) | Target group(s) | |
|---|--|--|---------------------------------------|
| | | Nature | Number |
| WP4-4.8 WP5-5.10 | PD_SESSION_06_015:Stevan Jokic, Ljiljana Jokic :Wokshops accredited by Serbian Ministry of education: Prokuplje, Serbia; Dissemination of IBSE and ESD on the wokshops 8-hours | Wokshops, simulation of works in class with inservice teachers | 30 primary and low secondary teachers |
| WP4-4.8 | Stevan Jokic has Invited lecture on 9th International Physics Conference of the Balkan Physical Union – BPU9 , 24-27 August 2015 , Istanbul University , Istanbul , Turkey “Education for sustainable development –resources for physics and sciences teachers (http://bpu9.balkanphysicalunion.com/?page_id=113) Article is published in AIP Conference Proceedings Education for sustainable development - Resources for physics and sciences teachers Dragana Miličić, Ljiljana Jokić, Sanja Blagdanić, and Stevan Jokić Citation: AIP Conference Proceedings 1722, 020002 (2016); doi: 10.1063/1.4944121 View online: http://dx.doi.org/10.1063/1.4944121 View Table of Contents: http://scitation.aip.org/content/aip/proceeding/aipcp/1722?ver=pdfcov v Published by the AIP Publishing  Rad_AIP_BPU91.4944121.pdf | Scientists and University professors | 800 |
| WP4-4.8 WP5-5.10 | Concours La Main à la Pâte (LAMAP) 2015 « Inventez aujourd’hui le monde de demain ! » Participation of 26 schools from Serbia. Results on http://institutfrancais.rs/pdf/LAMAP-resultats2015-FR.pdf Stevan Jokic, Ljiljana Jokic, dissemination of IBSE and ESD in Serbian schools | Projects form ESD and IBSE in Serbian schools | About 500 students and teachers |
| WP4-4.8 WP5-5.10 | during the Serbian-French month of science Climat, l’expo à 360° Du 17 septembre au 24 octobre 2015; Ateliers interactifs : Comment l’homme contribue-t-il au développement durable ? (Stevan Jokic, Ljiljana Jokic : workshops(dissemination of IBSE and ESD for teachers and students from the primary and secondary school and others visitors http://www.institutfrancais.rs/pdf/Depliant-Climat.pdf http://rukautestu.vin.bg.ac.rs/bdd_image/bilten/KNJIZICA_BIO | 5 Workshops during 1 month | About 300 teachers and students |

| Activities of the project (as formulated in the 1 st table) | Type of dissemination or exploitation (circulation of booklets, information provided in a meeting, website, articles in the press, etc.) | Target group(s) | |
|--|---|---|---|
| | | Nature | Number |
| | DIVERZITET_ODRZIVI_RAZVOJ.pdf | | |
| WP4-4.8 WP5-5.10 | PD_SESSION_19_09_015:Stevan Jokic, Ljiljana Jokic :Wokshops acreditated by Serbian Ministry of education: Sokobanja,Serbia; Dissemination of IBSE and ESD on the wokshops 8-hours | Wokshops, simulation of works in class with inservice teachers | 30 primary and low secondary teachers |
| WP4-4.8 | Festival of Sciences in Belgrade 3-5.12.2015 http://belgradecitycard.rs/event/Serbian-Science-Festival Stevan Jokic, Ljiljana Jokic, participated with Ateliers interactifs : Comment l'homme contribue-t-il au développement durable ? | Interactive experiments from ESD with student, teachers and parents | More hunderds visitors |
| WP4-4.8 |  945 praxa_P_PRAKSA_015.pdf  918 praxa_2015.pdf 2 Articles 6 pages in Serbian Educational WEEKLY Prosvetni pregled (Stevan Jokic and Ljiljana Jokic); Disemination of IBSE and ESD in the Serbian schools | Disemination of IBSE and ESD in the Serbian schools | The Journal is published in 5000 exe-mp. and send in Serbian school |
| WP5-5.10 | PD sessions :Stevan Jokic:/ 1 day work with around 100 low secondary students in the Camp. Worked was realized 3 times with 30 sutdents (5 groups by 6) during 2hours. They resolved the experimental problems (food, energy, everyday objects) in ESD by inquiry approach.(03-04.02.2016) - the invited lecture for teachers and students (45 minuts). http://omegafizika.rs/index.php/11-2012-05-10-06-37-51/56-2016 | Interactive experiments from SUSTAIN with student and teachers | 100 low secondary student and 20 teacher |
| WP4-4.8 WP5-5.10 | <u>Balkan Regional Workshop in Aleksinac (Serbia) 26-28.02.2016</u>  program-konferencije-Aleksinac_2016.pdf - 2 day work with around 100 teachers of Balkan Region. -Ljiljana Jokic and Stevan Jokic have realized workshops (2 hours) with 30 techers. They resolved the experimental problems (food, energy, everyday objects) in ESD by inquiry approach. - the invited lecture for teachers (45 minuts) about IBSE and ESD. Published in : Nastava fizike, (ISSN 2406-2626=Nastava fizike, COBISS.SR-ID 214910476) on p.25-31 | Wokshops, simulation of works in class with inservice teachers | 100 high school teachers from physics |
| WP4-4.8 WP5-5.10 | Strahinja Lukic and Stevan Jokic, 2 hours workshop about RENEWABLE ENERGY SOURCES (15.03.2016) | Interactive experiments from ESD with | 30 |

| Activities of the project (as formulated in the 1 st table) | Type of dissemination or exploitation (circulation of booklets, information provided in a meeting, website, articles in the press, etc.) | Target group(s) | |
|--|---|---|---|
| | | Nature | Number |
| | | low secondary students, teacher | |
| WP4-4.8 WP5-5.10 | <p>Stevan Jokic, Ljiljana Jokic prepared the concours for low secondary and high schools in Serbia about ESD in collaboration with French Institute in Belgrade</p> <p>« Préservez le climat, préservez votre santé ! » http://www.institutfrancais.rs/fr/07c_1.html#nogo</p> <p>It was published in weekly journal Prosvetni pregled and many other website in Serbia</p> | Projects in schools about ESD | We expect more than 20 schools with around 500 students |
| WP4-4.8 WP5-5.10 | <p>Ljiljana Jokic and Stevan Jokic have realized workshops (2 hours) with 40 teachers. They resolved the experimental problems (food, energy, everyday objects) in ESD by inquiry approach. XXXIV Serbian Conference of Physics Teachers, 12-14.05.2016</p> <p>http://www.dfs.rs/seminar2016/</p> | Workshops, simulation of works in class with inservice teachers | 40 teachers |
| Evaluation SUSTAIN resources with Questionary made by Christian Bertsch, | <p>The evaluation with Questionary (translated on Serbian was made by :</p> <ul style="list-style-type: none"> -Ljiljana Jokic and Stevan Jokic with teachers on XXXIV Serbian Conference of Physics Teachers, 12-14.05.2016 ; -Sanja Blagdanic on Faculty for teachers with pre-service teachers ; -Dragana Milicic with some school in Belgrade and Zrenjanin <p>The results are sent to Bertsch, Christian</p> | | |
| WP4-4.8 | <p>The Open door of Institute for Nuclear Sciences VINCA, 25.05.2016</p> <p>Stevan Jokic, Ljiljana Jokic</p> | Interactive experiments with students and teachers | 50 students and teachers |
| WP4-4.8 WP5-5.10 | <p>5. Translated questionnaire for Test with teachers about SUSTAIN materials (food, energy, everyday objects) on Serbian language and used on different PD sessions: send to Bertsh Christian.</p> <ol style="list-style-type: none"> 1. REALISED ACTIVITIES: Role of yeast in bread preparation?; What you can find in the milk?; Conservation of food; How process of congealing changes the food?; Wind-plant; Solar panels; Life-cycle analyses (plastic or glass bottle) 2. Our 8 hour workshop is realized with 30 teachers | | |

| Activities of the project (as formulated in the 1 st table) | Type of dissemination or exploitation (circulation of booklets, information provided in a meeting, website, articles in the press, etc.) | Target group(s) | |
|---|---|--|-------------|
| | | Nature | Number |
| | <p>which work in group with very simple materials found around us and by inquiry approach in ESD.</p> <p>3. Typical feedback is realized only with couple of teachers because they used different questioner imposed by our ministry of education.</p> <p>We have also interested answers of students on Faculty for teacher in Belgrade and all this materials is send to Mr Bertsh Christian.</p> | | |
| WP4-4.8 WP5-5.10 | <p>3.06.2016 :Sebian Academy of Science and Arts(SANU) : IBSE approach in ESD- ressources for teachers developed in the frame of projects <i>Рука у тесту</i>, EU-Fibonacci и EU-SUSTAIN and experience of teachers in Serbian's schools</p> <p>ТРИБИНА II, 2016 : Истраживачки приступ у образовању за одрживи развој – ресурси за наставнике развијени у оквиру пројеката Рука у тесту, EU-Fibonacci и EU-sustain и искуство наставника у школама Србије</p> <p>(Stevan Jokic, Ljilana Jokic, Dragana Milicic, Sanja Blagdanic)</p> <p>https://www.sanu.ac.rs/Odbor-obrazovanje/Skupovi/2016Tribinall.pdf</p> | Presentation of different teachers experience from Serbia | 50 |
| WP4-4.8 WP5-5.10 | <p>Participation on 11th Conference of the Society of Physicists of Macedonia 2016 September 22nd to 25th, Ohrid, Macedonia</p> <p> Ohrid2016_11thConference_Program_education (1).pdf</p> <p>Invited lectures S. Jokić and Lj. Jokić “Inquiry approach in education for sustainable developement- a role of physics teachers”</p> <p>-Workshop – Part I and Part II (4 hours) Stevan Jokic and Ljiljana Jokic "Inquiry approach in education for sustainable development: energy, everyday objects, climatic changes"</p> | Wokshops, simulation of works in class with inservice teachers | 30 teschers |

| Activities of the project (as formulated in the 1 st table) | Type of dissemination or exploitation (circulation of booklets, information provided in a meeting, website, articles in the press, etc.) | Target group(s) | |
|--|--|--|---|
| | | Nature | Number |
| WP4-4.8 WP5-5.10 | <p>during the Serbian-French month of science: Concours La Main à la Pâte (LAMAP) 2016 « Préservez le climat, préservez votre santé ! » results : http://www.institutfrancais.rs/pdf/LAMAP-resultats2016.pdf</p> <p> Depliant-Climat2016.pdf</p> <p>- Ateliers interactifs 27.09-25.10.2016 : « Eduquer, la solution pour une planète durable » (Stevan Jokic, Ljiljana Jokic : workshops(dissemination of IBSE and ESD for teachers and students from the primary and secondary school and others visitors). The booklet for this workshop is on our website http://rukautestu.vin.bg.ac.rs/bdd_image/esd/knjizica.pdf</p> <p>-Talk of 3 Ambassadors(France, Germany, UK) and Serbian Minister of Agriculture and Ecology with students about climatic changes: http://www.ambafrance-srb.org/3-ambassadeurs-et-un-ministre-pour-echanger-avec-les-jeunes-sur-le-changement</p> | 5Workshops during 1 month Discussion with students, teachers; Exhibition | 200 students and teachers 200 participants |
| WP4-4.8 WP5-5.10 | <p>.-Serbia: Number of the teachers/ educators involved in Sustain* (PDworkshops, at national and international level, work in class) reported on Final Conferenc in Belrin</p> <p> SERBIA_SUSTAIN_PD_SESSIONS.pdf</p> | | |
| WP4-4.8 WP5-5.10 | <p>Higher Education Fair 2016, Belgrade on 10 November 2016 at Hotel Metropol http://erasmusplus.rs/hedufair/</p> <p>Stevan Jokic has presented the results of SUSTAIN project: 3 Booklet on English: ENERGY, FOOD, EVERYDAY OBJECTS and translation of this 3 Boklets on Serbian language: ENERGIJA, HRANA, SVAKODNEVNI OBJEKTI</p> | Visitors from EU | |
| WP4-4.8 WP5-5.10 | <p>Stevan Jokic with help of Ljiljana Jokic (during period 1.06-30.10.2016): are translated on Serbian language 3 Booklets and put it on website on which teachers from Serbia could download 3 SUSTAIN Booklets and 4 Bulletins about ESD http://rukautestu.vin.bg.ac.rs/?Page_Id=1206</p> <p>ENERGY http://rukautestu.vin.bg.ac.rs/bdd_image/esd/energija.pdf</p> <p>-EVERYDAY OBJECTS:</p> | | |

| Activities of the project (as formulated in the 1 st table) | Type of dissemination or exploitation (circulation of booklets, information provided in a meeting, website, articles in the press, etc.) | Target group(s) | |
|--|--|-----------------|--------|
| | | Nature | Number |
| | http://rukautestu.vin.bg.ac.rs/bdd_image/esd/objekti.pdf - FOOD: http://rukautestu.vin.bg.ac.rs/bdd_image/esd/hrana.pdf | | |
| | <p>On the same page http://rukautestu.vin.bg.ac.rs/?Page_Id=1206 teachers could download 4 manuals with experimental kits about ESD which during 3 years (2014-16) circulated in many towns from Serbia with 3 exhibitions which is realized with French Institute in Belgrade http://www.institutfrancais.rs/fr/07c_1.html . This manuals are :</p> <p>1.My contribution to Sustainable development and to save of biodiversity http://rukautestu.vin.bg.ac.rs/bdd_image/bilten/KNJIZICA_BI_ODIVERZITET_ODRZIVI_RAZVOJ.pdf</p> <p>2.How man transform a matter for his need http://rukautestu.vin.bg.ac.rs/bdd_image/bilten/Knjizica_eksp_erimentI_ENERGIJA_014.pdf</p> <p>3. How man domesticate and use the light for his need http://rukautestu.vin.bg.ac.rs/bdd_image/bilten/Knjizica_eksp_erimenti_SVETLOST.pdf</p> <p>4. Education as sustainalbility http://rukautestu.vin.bg.ac.rs/bdd_image/esd/knjizica.pdf</p> <p> 945 praxa_P_PRAKSA_015.pdf Articles 6 pages in Serbian Educational WEEKLY Prosvetni pregled (Stevan Jokic and Ljiljana Jokic); Disemination of IBSE and ESD in the Serbian schools</p> <p> 918 praxa_2015.pdf Articles 6 pages in Serbian Educational WEEKLY Prosvetni pregled (Stevan Jokic and Ljiljana Jokic); Disemination of IBSE and ESD in the Serbian schools</p> | | |

| Activities of the project (as formulated in the 1 st table) | Type of dissemination or exploitation (circulation of booklets, information provided in a meeting, website, articles in the press, etc.) | Target group(s) | |
|---|--|-----------------|--------|
| | | Nature | Number |
| | | | |