








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

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	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.(<u>03-04.02.2016</u>) - 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

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		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 		

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	<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

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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>		

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	<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>		

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