



Project no. 619237 Project acronym: Ultrafast RAZipol Ultrafast Laser with Radial and Azimuthal Polarizations for High-Project title: efficiency Micro-machining Applications

Collaborative Project (STREP)

FP7-ICT-2013-11 Information and Communication Technologies

D8.1 – Website developed and brand established for Razipol

Revision 1.0

Due date of deliverable: February 2014 (M03) Actual submission date: 28/02/2014

Start date of project: 1st November 2013

Duration: 36 months

Organisation name of lead contractor for this deliverable: Universität Stuttgart (USTUTT)

Coordinator: Dr Marwan Abdou-Ahmed (USTUTT)



Signed:

Date: 27.02.2014

Project co-funded by the European Commission within the Seventh Framework Programme (2007-2013)				
	Dissemination Level			
PU	Public		X	
PP	Restricted to other program	mme participants (including the Commission Services)		
RE	RE Restricted to a group specified by the consortium (including the Commission Services)			
CO	Confidential, only for memb	pers of the consortium (including the Commission Services)		





D8.1: Website developed and brand established for Razipol

Nature: Other

Dissemination Level: Public (PU)

<u>Owner</u>	
Name:	USTUTT
Lead Beneficiary:	USTUTT
<u>Context</u> Author(s):	Dr Marwan Abdou-Ahmed WP8
Work Package:	
Task:	All
Document Status	
Version:	1.0
Last modified:	27.02.2014
Status:	Released
Approved by:	Dr Marwan Abdou-Ahmed
Date Approved:	27.02.2014

Contents

1	1 Introduction		4
2	The	e Website	5
	2.1	The Home page	5
	2.2	The Project page	6
		The Partners page	
		The Publications page and News page	
		The Contact us page	

1 Introduction

The main objective of this website is to create an initial awareness of the Ultrafast_RAZipol project within the general public as well as within the scientific community.

The public facing website held at <u>www.razipol.eu</u> has been designed to inform people who are external to the consortium of:

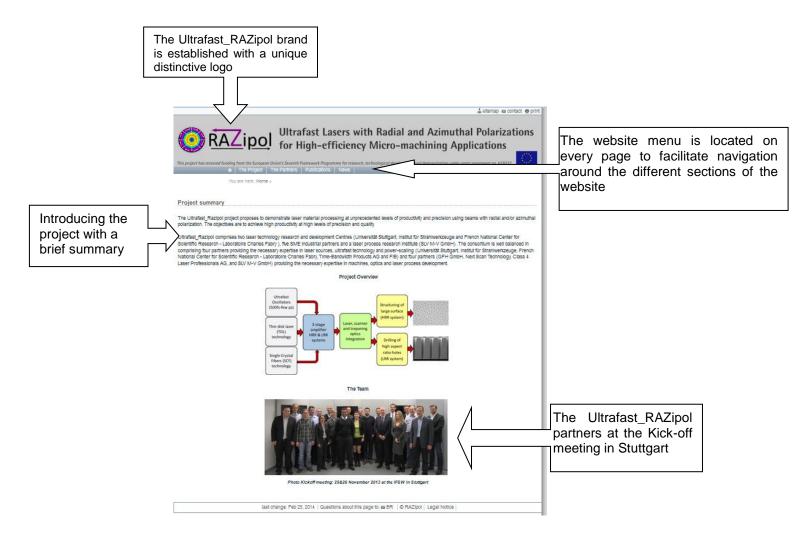
- What the project is about
- On the main aims of the project
- The organisational partners involved
- On the latest news and achievements
- Links to other related information

There is also online contact details to allow further information request by visitors.

The website will be regularly updated as and when new information is generated.

2 The Website

2.1 The Home page



2.2 The Project page

The project page includes an overview of the project, its aims and reference to the FP7 Grant Agreement details.

	La sitemap wa contact ⊕ print	
This project has received funding from the European Union's	Iltrafast Lasers with Radial and Azimuthal Polarizations or High-efficiency Micro-machining Applications Seventh Framework Programme for research, technological development and demonstration under grant agreement no. 618227	
You are here: Home » The R	Project »	
The Project		
About Ultrafast Lasers with Radial and Azimuthal	Proposal High-precision laser micro-machining has delivered a important impact in daily life, hence its benefits and	
Polarizations for High-efficiency Micro-machining Applications	usefulness can easily be taken for granted. For example in the manufacture of smart phones, i-tablets, etc, high-precision laser micro-machining is essential to produce some of the key features we use in these devices. In the car industry it is has been shown that diesel nozzies produced with ultrafast lasers lead to	
Project Start Date	significantly reduced air pollution in comparison to nozzles produced with conventional fadrication techniques. Spinning nozzles used widely in the textile industry are also produced using ultrafast lasers. The main goal of RAZIpol is to demonstrate laser material processing at unprecedented levels of productivity	
Project Duration	(leading to drilling process times below 4 s of high aspect ratio [401] holes compared to current times of 25 s) and precision material processing (structure dimension <1 µm) using beams with novel radial and azimuthal polarization. The challenge is not only to achieve high productivity at moderate levels of precision or	
33 months lend date 01/11/18)	highest quality at low speeds, but to reach both largets at the Earlie time. Therefore an adequate ultrafast laser source with a very high average power and well-adapted beam parameters, including pulse duration, pulse energy, intensity profile and polarization, is needed. Additionally the laser beam has to be applied to the vort-yebe in a well-defined application-spectro manner. Finally, advanced processing strategies are required to obtain optimum results at high productivity. The ultrafast laser source planner for RAZIppi project combines several quite unique features, its modular 3-stage master collicator power amplifier (MORA) concept offers a high degree of fieldbilly to generate a bread range of pulse durations, pulse energies and regetition rates. The MORA combines an ultrafast losellast treeffer with a Single Crystal Tiber as its amplification tasge and a thin-lake multipase amplifier a final amplification stage. Although the potential range of material processing applications for this laser source is exercised for advances of the other states and the strategies and the potential application. The first application will be based on a fast scammer system which facilitates the providing up to 500 W average power will be set up for repetition rates in the 20-40 MHz range with pulse duration of approximately to the cend application will be the tragening drilling of deeps, the house that physication facilitates the providing up to 500 W average power will be set up for repetition rates in the 20-40 MHz range will be the unitation of approximately to the cend application will be the tragening drilling of deeps, then a be to the generating high pulse energies (e.u.m.) at pulse duration of about 59 exercise heat and high-volume a papiloations as well as fast and high-volume applications.	
	demonstration under grant agreement no. 19227	
last change: Feb 25, 2014 Questions about this page to: ex BR © RAZipol Legal Notice		

Status: Released

2.3 The Partners page

Here, a section is dedicated to each partner which contains the organisation's logo and background information, including a hyperlink to the organisation's own website. The partners list on the top left hand side provides quick navigation to the section relevant to each partner.

	🛓 sitemap 📾 contact 🖷 print
This project has received funding from the European Uni	Ultrafast Lasers with Radial and Azimuthal Polarizations for High-efficiency Micro-machining Applications on's Seventh Francesork Programme for research, technological development and demonstration under grant operement no. 615237
The Partners	
Partners Institut für Strahlverkzsuge Universität Stuttgart Time-Bandwidth Products AG CNRS-LCF FIB Next Scan Technology (NST) GFH GmbH SLV M-V GmbH Class4 Laser Professionals AG	<text><image/><image/><image/><text><text><text></text></text></text></text>
	<text><text><text><text><text></text></text></text></text></text>

2.4 The Publications page and News page

The publications page currently shows a paper in which the Ultrafast_RAZipol project is acknowledged. Presentations and material used during meetings and conferences will be uploaded to this area along with other general dissemination documents produced during the course of the project. The News page contains information related to the project's upcoming events and the page will also be updated during the course of the project.

	Listernap econtact epriv
Example a metal of part largers with Radia and Azimuthal Polarizations for High-efficiency Micro-machining Applications Analysis of the factor of t	With the second se
	News
Publications	 Next: Consortium meeting will take place in Palaiseau (France) on the 22823 May 2014
Article in Industrial Laser Solutions - utrafast lasers for high efficiency micomachining applications (11/13/2013)	Kickoff meeting: 25628 November 2013 at the IF SW in Stuttgert
last change: Feb 10, 2014 Questions about this page to: IBR @ RAZpot Legal Notice	last change: Feb 10, 2014 Questions about this page to: gs BR @ RAZjo0 Legal Notice

2.5 The Contact us page

