



## SAFARI

*Scalable And Flexible optical Architecture for Reconfigurable Infrastructure*

### Deliverable D1.2

#### Project website live, including project presentation document

Issue date: May 28<sup>th</sup>, 2015

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EUJ-2-2014: Optical communications

Grant agreement for: Research and Innovation action

Grant agreement no: 642928

Start date: October 1, 2014

Duration: 36 month

Dissemination Level		
PU	Public, fully open, e.g. web	x
CO	Confidential, restricted under conditions set out in Model Grant Agreement	
CI	Classified, information as referred to in Commission Decision 2001/844/EC	



## **Executive Summary**

This document reports on the official website of SAFARI with a summary of each page.



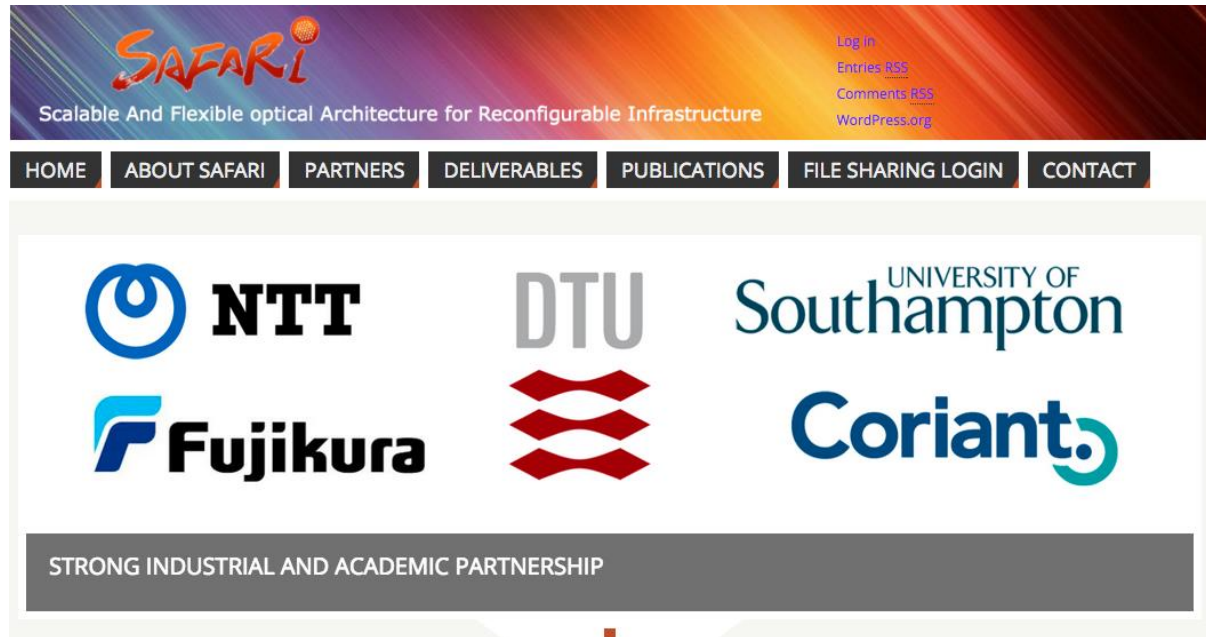
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## 1 About SAFARI Website

### 1.1 Landing page - Home

The official website of SAFARI (<http://www.ict-safari.eu/>) was successfully launched on 24/11/2014, within 2 months of the project starting date October 1<sup>st</sup>, 2014. The website platform is WordPress, a widely used content management system (CMS) based on PHP and MySQL. The landing page looks like the following.



**Figure 1-1: The landing page of SAFARI official website.**

The logo of SAFARI is embedded on the top bar of the landing page and it is visible for all the other navigation pages, which are Home, About SAFARI, Partners, Deliverables, Publications, File sharing login and Contact.

The logos of the 5 partners are shown immediately under the navigation bar, below which a news section is included as following.

#### NEWS

- 27/03/2015 The second SAFARI plenary meeting was held after OFC 2015 in Los Angeles, California, USA, coordinated by NTT.
- 26/03/2015 A low crosstalk (-40 dB over 100 km), 30-core fibre was presented as a regular paper (Th4C.4) at OFC 2015.
- 08/12/2014 A press release from University of Southampton on SAFARI can be found [here](#), same news is also available on [electronicsweekly](#).
- 26/11/2014 The kick-off SAFARI plenary meeting was held at multiple locations via tele/videoconference systems, coordinated by DTU and NTT.
- 24/11/2014 SAFARI website was launched.
- 20/10/2014 SAFARI project was mentioned in an article entitled "EU-Japan join forces for high-speed telecoms research", read the details [here](#).
- 17/10/2014 An official press release of EU & Japan projects under Horizon 2020 is available now, read the details [here](#).
- 26/09/2014 A kick-off preparatory meeting of SAFARI was held in Munich, coordinated by Coriant.

**Figure 1-2: The news section on the landing page.**

## 1.2 About SAFARI

The page on “About SAFARI” describes the background and main tasks within SAFARI.

### ABOUT SAFARI

Highly scalable & flexible optical transport networks are urgently required in order to meet the demands for unrelenting exponential data traffic growth. The number and diversity of bandwidth intensive applications and services is rapidly increasing, leading to new demands on transport networks. The present optical transport networks based on conventional fibres, however, are facing fundamental limits in capacity/throughput and are lacking in terms of network flexibility and control. The Scalable And Flexible optical Architecture for Reconfigurable Infrastructure (SAFARI) project aims at developing programmable optical hardware, and Space-Division Multiplexing (SDM)-based optical component technologies capable of realising highly scalable & flexible optical transport networks for the long term future. The high level objectives of the SAFARI project are to:

- Develop programmable optical hardware allowing novel multi-flow transport functions which is scalable to at least 400 Gbps/channel transport, and implement the critical interworking capability required between the software defined network (SDN) layer and the physical layer.
- Develop SDM-based optical transport technology based on super-dense, high-count multicore fibres (MCFs) and multicore erbium-doped optical fibre amplifiers (MC-EDFAs).
- Undertake system experiments on scalable & flexible optical transport networks based on the newly developed SDN-controlled interworking capability and capacity-scalable hardware, showcasing the unique functionality and capabilities made possible. Specific attention will be focused on demonstrating that the SDN-controlled programmability developed is compatible with both existing single-mode-fibre transmission systems and future SDM-based systems, allowing for a graceful upgrade scenario with current systems.

Figure 1-3: The “About SAFARI” page.

## 1.3 Partners

The page on “Partners” introduces the 5 partners within SAFARI, 3 from EU and 2 from Japan.

### PARTNERS

#### EU Partners

- [Technical University of Denmark](#) (Denmark)
- [University of Southampton](#) (United Kingdom)
- [Coriant R&D GmbH](#) (Germany)

#### Japanese Partners

- [NTT Corporation](#) (Yokosuka, Kanagawa)
- [Fujikura Ltd.](#) (Sakura, Chiba)

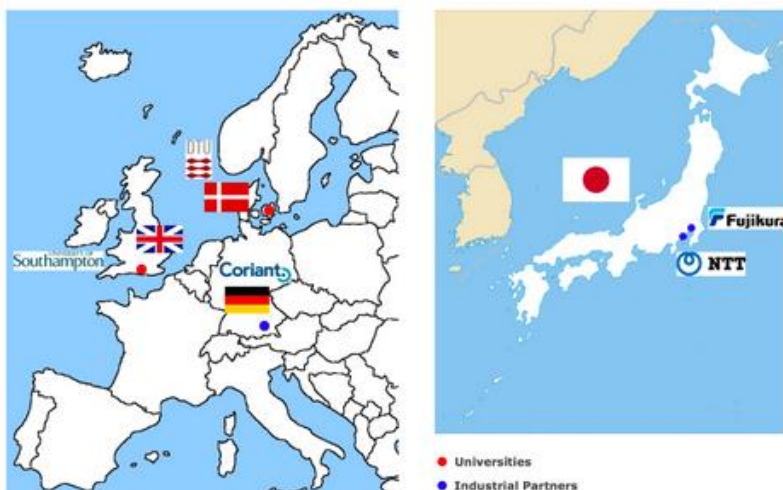


Figure 1-4: The “Partners” page.

## 1.4 Deliverables

The page on “Deliverables” is still to be updated after the deliverables become available for public.

## 1.5 Publications

The page on “Publications” is constantly updated when the papers submitted to conferences and journals are published. More publications are expected within the next half-year as the project progresses.

### PUBLICATIONS

Papers in conference proceedings

1. Y. Amma, Y. Sasaki, K. Takenaga, S. Matsuo, J. Tu, K. Saitoh, M. Koshib, T. Morioka, and Y. Miyamoto “[High-density Multicore Fiber with Heterogeneous Core Arrangement](#)”, Optical Fiber Communication Conference (OFC 2015), paper Th4C.3, Los Angeles, California, USA.

Papers in journals

1. To be updated

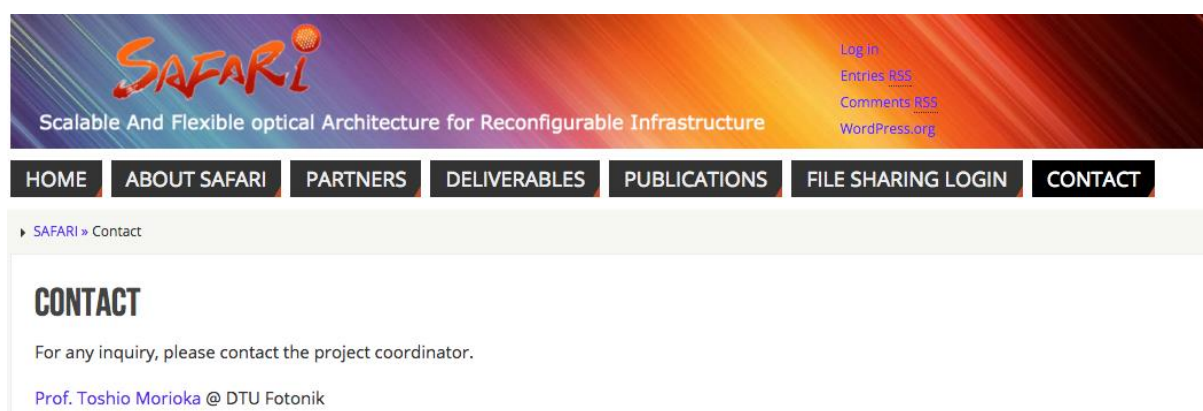
Figure 1-5: The “Publications” page.

## 1.6 File sharing login

The file sharing login is also provided on the SAFARI website so that the project members can login directly.

## 1.7 Contact

The “Contact” page provides the opportunity for any visitor/research group who is interested in our project for inquiry.



## 2 Project Presentation

The project presentation can be downloaded in the “About SAFARI” page.

### ABOUT SAFARI

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Project presentation is [here](#).







### Document History

Version	Date	Authors	Comment
00	28/05/2015	DTU (Feihong Ye, Toshio Morioka)	First and final draft