



**European Commission**

Directorate-General Communications Networks, Content and Technology

Components and Systems  
Photonics

Brussels,  
CNECT-A1/MH/mw

Dr. Manfred Kohl  
KIT (Karlsruhe Institute of Tech.)  
- Institute for Microstructure Tech.  
Hermann-von-Helmholtz-Platz 1  
Bld. 301  
D - 76344 Eggenstein-Leopoldshafen

**Subject: Result of review no 3 of FP7/ICT project 288869 NAVOLCHI**

Dear Dr. Kohl,

Following the review meeting of 5 November 2014, you received a preliminary review report by email of 9 December 2014, where you were asked for some improvements of deliverables and milestone reports. These improvements were submitted on 19 February.

The review report has been finalised accordingly. Based on this, the Commission has decided according to the provisions of Article II.23 of the grant agreement to:

- Allow the project to continue without modifications

The Commission recommendations to be implemented are the following:

1. Submit at month 40/41 an additional milestone report (MS50) on the final planning of system demonstrators based on actual progress in devices.
2. Report also on the new metal grating couplers. This should be included in the pending deliverable D3.3 or an additional milestone report MS51, as appropriate.

The Commission approval of deliverables is set out in the enclosed Annex 1.

The result of the experts' review of the project is set out in the enclosed Review report (Annex 2).

No assessment of the use of resources has been due in this intermediate review.

According to Article II.23.8 of the grant agreement, you may make observations on the result of the review of your project within one month of reception of this letter.

Please contact me as soon as possible to discuss the steps to be taken for implementing this decision.

Yours sincerely,



Michael Hohenbichler  
(Project Officer)

Enclosure:           Annex 1: Commission approval of deliverables  
                          Annex 2: Review report

Copy by email:       Manfred Kohl: [manfred.kohl@kit.edu](mailto:manfred.kohl@kit.edu)  
                          Jürg Leuthold: [Juerg.Leuthold@kit.edu](mailto:Juerg.Leuthold@kit.edu)

Reviewers:

Raimondas Petruskevicius: [raimisp@ktl.mii.lt](mailto:raimisp@ktl.mii.lt)

Andrew Shields: [email@andrewshields.co.uk](mailto:email@andrewshields.co.uk)

## Annex 1

### Commission approval of deliverables

STATUS OF DELIVERABLES			
No.	Title	Status <i>(Approved/Rejected)</i>	Remarks
Deliverables approved in previous reviews			
D1.1	Project website	Approved	
D1.2	Project reference online manual	Approved	
D1.3	Project quality online assurance manual	Approved	
D1.4	Intermediate progress report	Approved	
D2.1	Definition of chip to chip interconnection system environment and specification (3)	Approved	
D2.2	Definition of plasmonic devices (12)	Approved	
D3.1	Report on optimised structure for metallic/plasmonic nanolaser and its coupling to Si WGs (12)	Approved	
D3.2	Report on modelling of the modulator structure (12)	Approved	
D4.1	Designs of plasmonic amplifiers (18)	Approved	
D4.2	Report on optical properties of QDs layers and polymer nanocomposites (18)	Approved	
D5.1	DDCM specification document (6)	Approved	
D5.2	DDCM with electrical PHY design and verification data base (12)	Approved	
D7.1	First report on NAVOLCHI dissemination and promotion activities (18)	Approved	
D7.2	First report on NAVOLCHI exploitation activities (18)	Approved	
D7.3	Mirror Deliverable of D7.1, which will be available to the public on the website. (18)	Approved	
D7.4	Intermediate report on recent achievements. (18)	Approved	
Deliverables due in this review			
D1.5	Intermediate Progress Report	Approved	Covers month 27-36
D2.3	Investigation of chip to chip interconnection level specification employing new plasmonic devices	Approved	The main conclusion is that the nanolaser and phase modulator can only be implemented separately. Results in

			D2.3 may be updated after all the device characteristics are known.
D2.4	Interface and plasmonic interconnect models and reports	Approved	ok
D2.5	Techno-economical evaluation with respect to the cost efficiency and green aspects (30)	<b>Delayed</b>	New date: month 45
D2.6	Report on new applications and their opportunities (36)	<b>Delayed</b>	New date: month 45
D3.3	Fabrication of plasmonic laser device	<b>Draft reviewed</b>	To be updated after nanolaser results are available. Include also the metal grating coupler results
D3.4	Report on fabrication of modulators (24)	Approved	ok
D4.3	Report on fabrication of modulators (24)	Approved	ok
D4.4	Report on SPP amplifiers by using QDs (30)	Approved	ok
D5.3	Compact optical filters and first generation beam shapers (21)	Approved	ok
D5.4	Generic DDCM compatible with plasmonic based PHY specification document (24)	Approved	ok
D5.5	Report on plasmonic waveguide couplers (24)	Approved	ok
D5.6	Generic DDCM compatible with plasmonic based PHY design and verification data base (39)	Approved	ok
D6.1	Report on characterisation results of all plasmonic devices (27)	Approved	ok
D6.2	Report on characterisation results of all optical interface plasmonic passive components (27)	approved	ok

\* Status:            *Approved*  
                          *Approved in part*  
                          *Approved subject to the conditions listed under remarks*  
                          *Rejected*

# **Annex 2**

## **Review report**