



NoE Project FP6-2002-IST-1-507879

PLASMO-NANO-DEVICES

Towards Sub-wavelength Miniaturization

of

Optical Interconnects and Photonic Components

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1	UB	Université de Bourgogne (COORD.)	F	Dereux
2	UEX	University of Exeter	UK	Barnes
3	AAU	Aalborg Universitet	DK	Bozhevolnyi
4	LZH	Laser Zentrum Hannover	D	Chichkov
5	ULP	Université Louis Pasteur (Strasbourg)	F	Ebbesen
6	TUD	Technische Universität Dresden	D	Eng
7	UAM	Universidad Autonoma Madrid	E	Garcia-Vidal
8	CEMES	CNRS Toulouse	F	Girard
9	WWU	Universität Münster	D	Fischer
10	CSEM	Neuchatel	CH	Heinzelmann
11	KFUG	Universität Graz	A	Krenn
12	Kodak	Kodak Ltd Harrow	UK	Moore
13	UZ	Universidad de Zaragoza	E	Martin-Moreno
14	EPFL	Lausanne	CH	Martin
15	MMP	Micro Managed Photons (until 2004)	DK	Madsen
16	QUB	Queen's University Belfast	UK	Zayats
17	Chalmers	University of Technology, Göteborg	S	Kall
18	ICFO	Institut Ciencas Fotoniques, Barcelona	E	Torner

NoE Objectives

OBJECTIVES

Scientific & Technical Objectives relevant to Priority 2 IST - Micro & Nanosystems

Changing the way research is carried out

MEANS

Miniaturisation of photonic components able to carry electrical and optical signals

**Dynamical allocation of resources
Testing a new decision & governance structure only possible at the European level**

NoE Research Activities

Textured metal films / fast fabrication methods

Extraordinary optical transmission (holes arrays & single apertures)

Dielectric optical elements for SPP

SPP waveguiding (stripes, grooves, plasmonic crystals...)

SPP passive and active devices

Modeling and computational methods

NoE Dynamical Steering of Internal Projects

