

## PROJECT / Plastic Optical Fibers with Embedded Active Polymers for Data Communications

# POLYCOM

### Main Objective:

Development of low-loss polymer optical fibers and waveguides with integrated gain and ultrafast optical switching functionalities.

The work to be carried out by IT researchers (under the contract signed by Instituto Superior Técnico) involves the synthesis of novel conjugated luminescent polymers to be dispersed in Plastic Optical Fibers (POFs) matrices (e.g. PMMA). The development of low loss POFs matrices is also part of IT contribution

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Reference: 026365, Funding: EU, Start Date: 01-05-2006

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Team: [Jorge Manuel Ferreira Morgado](#), [Luís Joaquim Alcácer](#), [Rui Teives Henriques](#)

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Groups: [Organic Electronics – Lx](#)

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Partners: Imperial College (London), Luceat S.p.A, Politecnico di Milano (project Co-ordinator), University of Applied Sciences Wildau, University of Sheffield

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Local Coordinator: [Jorge Manuel Ferreira Morgado](#)