



SCALOPES

SCalable LOw Power Embedded platformS

EXECUTIVE summary

The top-level goal of SCALOPES is to enable an industrially sustainable path for the evolution of low-power multi-core computing platforms for application domains with strategic value for European competitiveness.

RELEVANCE CALL 2008 objectives

SCALOPES is focusing on ARTEMIS Sub P5 'Computing Environments for Embedded Systems'.

The main technology focus in SCALOPES is on:

- > Energy & resources management solutions
- > Low-energy design methods & associated runtime methods
- > Design of energy-efficient multiprocessor systems

MARKET innovation

The objectives of the SCALOPES project will be considered as successfully reached when the following measures of success will be obtained after the finalization of the SCALOPES project:

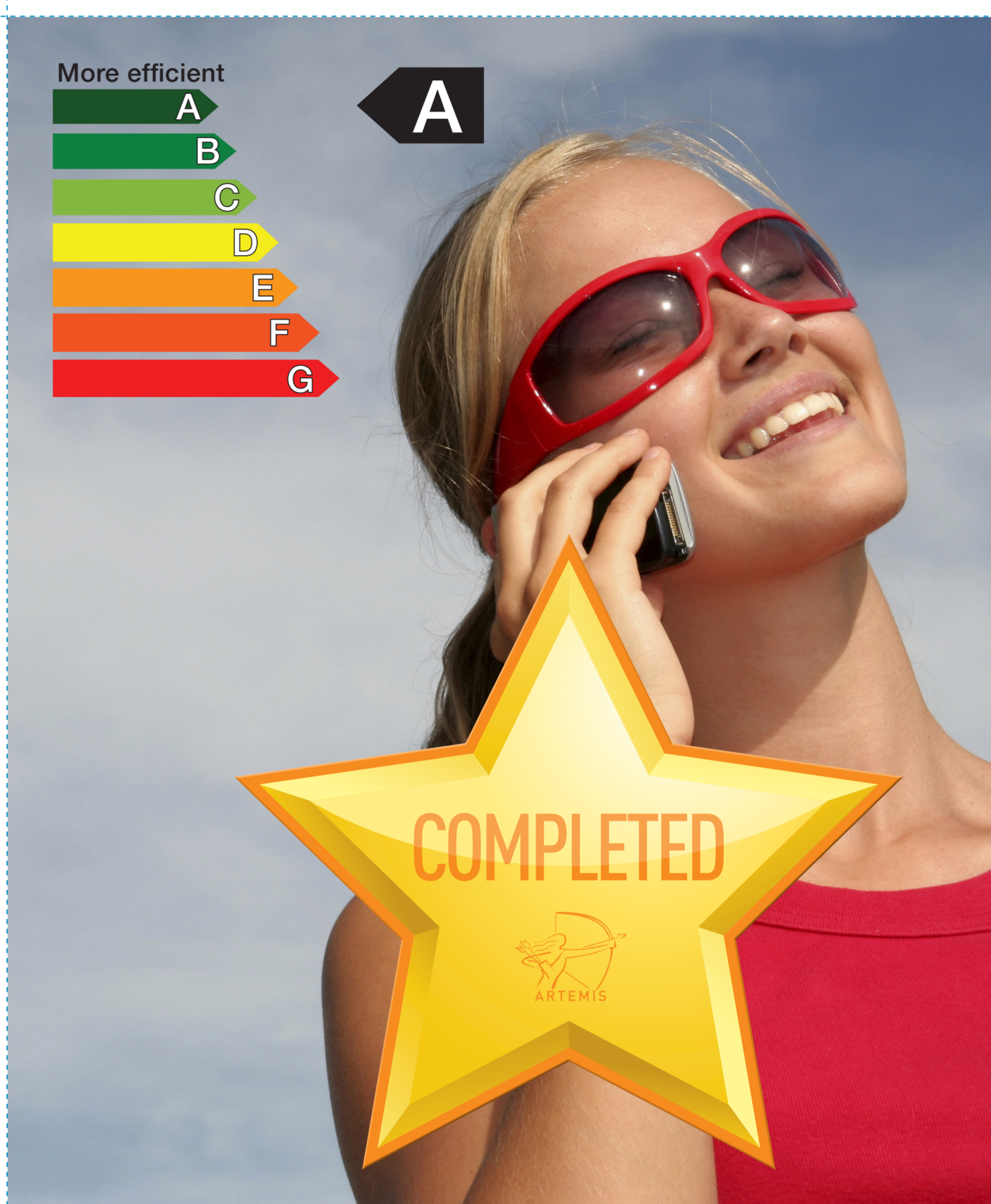
- > The power consumption is reduced by 30 % while the performance is increased by 20 % for multi-core embedded systems in all application domains of SCALOPES.
- > Compared to reference Home TV's from 2008, power savings of >35% in 2009, and 50% at the end of the project in March 2011.
- > Design tools developed allow a reduction of design time of 20% for the typical embedded system architecture designs for the application area covered.
- > The resource management framework for the display controller should allow 50% increase in resource usage with 50% decrease in form factor.

TECHNICAL innovation

- > Move from vertically-integrated platform-specific to horizontally structured multi-domain solutions.
- > The development of platforms to provide real-time data processing capabilities (image, video, audio, packet processing) with high energy efficiency.
- > Enable high-productivity development and retargeting of software with reliability, predictability and energy efficiency.



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PROJECT COORDINATOR Dennis Alders	START January 2009
INSTITUTION NXP	DURATION 27 months
EMAIL dennis.alders@nxp.com	TOTAL INVESTMENT €36 M
WEBSITE www.scalopes.eu	PARTICIPATING ORGANISATIONS 36
	NUMBER OF COUNTRIES 11

THE NETHERLANDS

UNITED KINGDOM

FINLAND

CZECH REPUBLIC

HUNGARY

GREECE

BELGIUM

SPAIN

FRANCE

ITALY