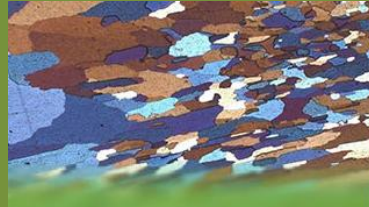




# SuPLight - Sustainable and efficient Production of Light weight solutions.



SuPLight newsletter. Vol 1. 2012.03.01.

[www.suplight-eu.org](http://www.suplight-eu.org)



## Project managements' corner

Welcome to SuPLight Newsletter no 1. We are delighted to be well on our way with the scientific challenges of SuPLight. I would like to give credit to all partners and supporters of the project for a good start-up process. I hope you will all follow us on the way towards a more sustainable and efficient production of light weight solutions.  
Best regards,  
Kristian Martinsen, Project coordinator

Funded by the European Commission  
SEVENTH FRAMEWORK PROGRAMME:  
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FP7-NMP-2010-SMALL-4  
Activity code:  
NMP-2010-3.1-1: New industrial models for a sustainable and efficient production

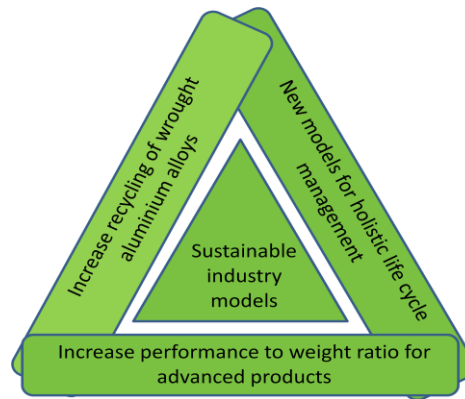
## What is SuPLight?

**Sustainable and Efficient Production of Light weight solutions.**

SuPLight is a multidisciplinary research project, combining physics at the atomic scale level, metallurgy, continuum mechanics, structural mechanics, optimization algorithms, tolerance analysis, life cycle analysis, manufacturing and business modeling. This multidisciplinaryity is a challenge but also the key to the real step-change from the project. SuPLight goes beyond prior knowledge on how to reduce weight in structural parts and improve the holistic eco-design of aluminum

wrought alloys and to build novel sustainable industry models with a holistic life cycle approach. The project aims to develop new theories, methods and concepts that will be thoroughly tested and demonstrated through the project period. The results will be transformed into new business models, showing how these new approaches can be enabled for other industries as well. Industrial exploitation of the results and to create impact for the European society will be in focus throughout the project.

Follow the project on [www.suplight-eu.org](http://www.suplight-eu.org)



## Short notice:

Next SuPLight meeting takes place in Paris in June 2012. The meeting will be hosted by the Technical University of Capiègne.

## The SuPLight profile:



Kristina Wärmefjord, RD&T Technology, Gothenburg Sweden

### Short facts:

PhD in Product & Production development at Chalmers University of Technology

### Core competence:

Tolerance analysis and robust design in mechanical design/manufacturing

### Main contribution in SuPLight:

Simulation and evaluation of:  
Physical and mechanical properties of alloy  
Dimensional and geometric tolerances of the final product  
Tolerances on tooling, work piece, temperature, process and material properties

## What is new?



The 6 months meeting was hosted by EPFL – Ecole Polytechnique Fédérale de Lausanne and took place in Les Diablerets. Good meetings, good cooperation, good food and good team building.