



Marika Edoff, coordinator

13 A LUCKY NUMBER?

(Advanced aRchitectures for ultra-thin high-efficiency CIGS solar cells with high Manufacturability)

LEIT-NMBP-17-2016: Advanced materials solutions and architectures for high efficiency solar energy harvesting"

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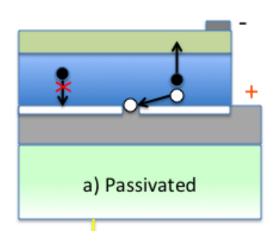


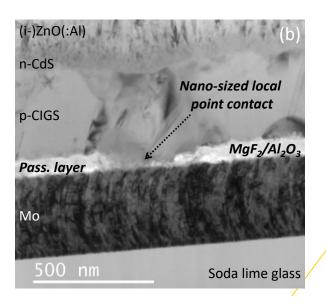


PROJECT-IDEA

▶ The project idea:

Further develop thin film solar cells for **lower material usage** and **higher efficiency**, using new concept for light trapping and electrical passivation. The goal was **23% efficiency** for a light absorbing layer of **500nm**. One part of the project is also to use a substrate of **low cost steel**.



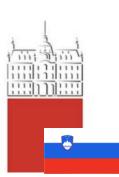


CONSORTIUM

























ARCIGS:M

CONSORTIUM







SME AND RESEARCH INTENSIVE INDUSTRIAL PARTNERS











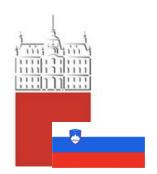
LARGE COMPANIES













UNIVERSITIES







RESEARCH INSTITUTES

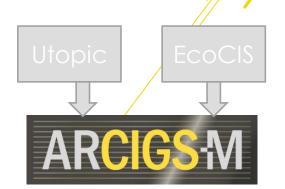






- The application was based on two earlier applications to other calls: :
 - ▶ UTOPIC (coordinator, UU)
 - ► EcoCIS (coordinator CNRS)
- ▶ Both were applications for H2020_LCE-2015_1_two-stage. Both passed to stage 2, but failed
- ▶ After agreeing with the coordinator for EcoCIS, we decided to merge the two consortia. The two projects had some overlap
- All partners from UTOPIC and most of EcoCIS were invited to join the new consortium
- ▶ The UTOPIC-koncept was based on work from UU, which motivated to coordinate the new consortium
- Several of the partners had on-going collaborations
- ▶ The partners were found to complement each other in a good way

BUILDING THE CONSORTIUM







- Good experiences
 - ► To have an influence on the work and research in the project
 - To influence organization and how the work is divided between partners
 - To be able to have a local administrative team (Pia Lansåker and Ramy Salameh)
 - Recognition within the university, but also within the research network nationally and internationally

TO BE A COORDINATOR

Challenges

- It takes time for all phases, both during application, the starting period and the running period as well as reporting period
- Negotiations at the start of the project, before it was finally completely granted and ready to be started. We needed to address all the comments from the reviewers.
- To get an agreement from all partners for the consortium agreement





- ▶ We used feed-back from reviews of the earlier applications.
 - "Not credible"
- ▶ The new application got the review:
 - "The proposed methodology is highly credible"
- ► The overall exploitation measures at partner and consortium level, the described market analysis and future outlook in technological and market developments are of very good quality
 - ▶ We got excellent assistance from UUI with the market analysis!!
- ▶ Consortium was well balanced, different expertise, etc.
- Consortium had a good gender balance

THE SUCCESS FACTORS (MY GUESSES)



- External consult to do the market analysis was very helpful
- ▶ Good help and advice from research coordinators at UU and NCP at Vinnova to get the application more appetizing. Also good advice to not add too many deliverables. Do not promise too much, it is not credible.
- ▶ It would be good to share best practice regarding the consortium agreement. One good thing that we did was to include in the application that we intended to use the EU DESCA template.

LESSONS LEARNED ON APPLICATION





- ▶ Project organized in 7 work packages (WP) with project leader
 - WP leaders were responsible for updating the minutes (live document)
 - ▶ WP leaders responsible for updating on the deliverables
- ► Separate WP for Management and for Outreach
- Monthly or bi-monthly separate WP meetings
- WP leaders organized in Executive committee, meeting bimonthly
- ▶ At the end, all meetings joined, since the final goal was to merge all results into a final prototype

RUNNING THE PROJECT





- One partner went into bankruptcy
 - Need for an amendment
- ▶ Two partners moved their labs (closed labs for one year)
- Project was prolonged twice
 - First due to the bankruptcy and delayed operation of moved labs
 - Second due to the corona pandemic, since some partners had lock-down issues
 - Very swift handling by project officer











- ▶ Bi-annual meetings (General Assembly) with the consortium
- Mid Term Assessment
 - A monitor (permanent reviewer) was assigned to our project
 - MTA with the whole consortium, project officer and monitor
- MTA report successful, allowed to continue with small adjustments to the original plan
- Final reporting meeting one month before project ending
 - Draft report ready two weeks before final reporting meeting
 - Very positive review
- Final reporting 60 days after project ending (Jan 31st)
- Final reporting including economic reporting approved last week!

REPORTING

WP6 MANAGEMENT IPANTS: ALL

Did we meet all our ambitious goals?
No

- Was it fun to run the project? Yes
- ▶ Did it boost the publication list? Yes
- Was it a lot of work? Yes, but not unreasonable
- ▶ Was it worth the trouble? Yes!
- ▶ Was it worth the funding? Hmmm..
- Will I do it again? Yes, if I get the chance





Project officer

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