



INN PAPER

1st Newsletter



INNpaper newsletter

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01 Foreword



The INNPAPER project has completed its first year and has set the basis for the development of a new generation of paper-based electronic platforms. During these 12 months, the efforts have focused on the **development of functional paper with tailor-made properties** and individual electronic devices.

One of the main goals of INNPAPER is to give a significant role to the cellulose in the electronic systems. We are starting to achieve this goal, since **we have already successfully incorporated the cellulose in inks** for printed batteries, displays and hygrometry sensors, replacing the no-green components previously used. **Transferring printed electronics from plastic to paper substrates has been also successfully addressed** in this period for some of the systems such as environmental sensors.

Future challenges for the next period include the integration and interconnection of the paper-based electronic devices on a single platform through a suitable fabrication process flow. All in all, **the project is progressing according to the plan** and I am confident it will be very successful. These promising results are being reached **thanks to close-collaborations between the multidisciplinary partners of INNPAPER**, who are demonstrating to be very active and enthusiastic.

Ana Viñuales

Project Coordinator





02 INN PAPER, face to face

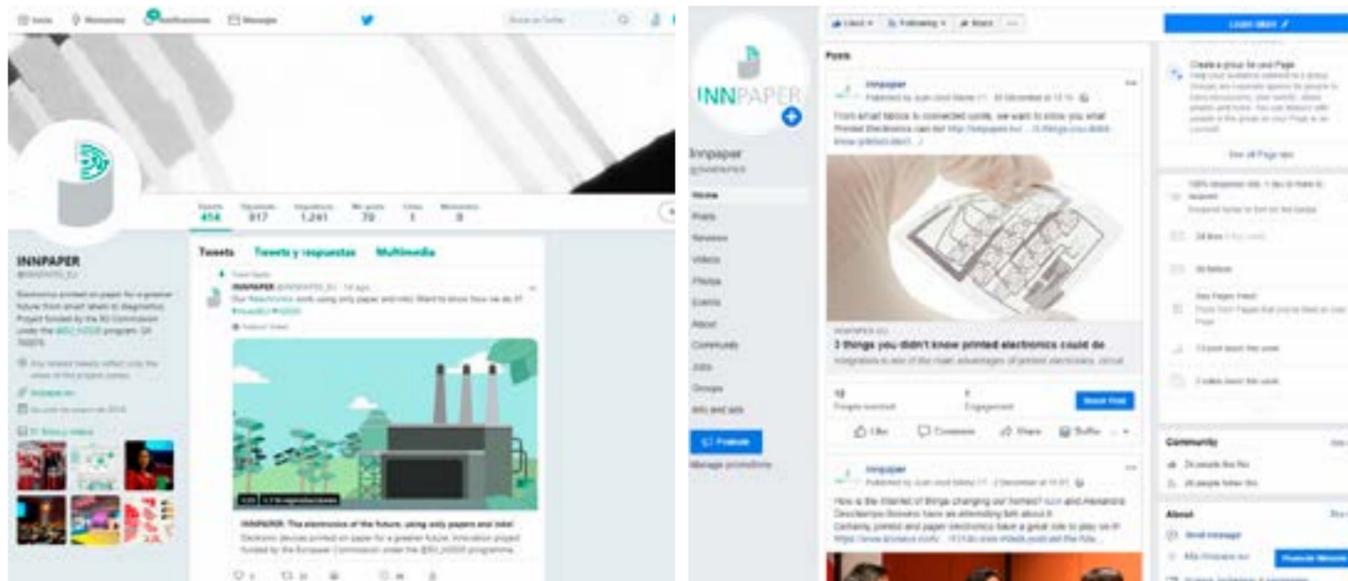


Universities, Research Centres, enterprises and SMEs. Altogether, INN PAPER is a joint effort between many actors in both the academic and the industrial landscape. This **collaboration sets the path towards good results** and eases the transfer of the technology and knowledge created by the project. For us, to guarantee the technology's uptake so it lives beyond the project's duration is a central point that we want to address right from the start.

For this reason, this year **our partners have taken part in several industrial meetings**, to establish stable and fruitful collaborations in many different fields. Among many other events, we attended **Scanpack**, an international industry exhibit on packaging, to talk about our smart-label use case; **MEDICA fair**, the world's largest event for the medical sector, explaining how our diagnostic tests will function; and the **IDTech Exhibition** in Santa Clara, to present the use of printed sensors within paper and its multiple uses for smart packaging. In 2019 we will foster more collaborations, so stay tuned to our social media channels (**Twitter** and **Facebook**) to know where to find us and talk with us face to face!



03 Communication and dissemination: setting the path for exploitation



Our project envisions a change from the traditional electronics made of plastic and metal to an alternative, paper-based solution, and this can have a wide societal impact. For this reason, **we want to go beyond the lab**, and get in touch with all the people that may be interested: researchers, people working in different industries and the general public. Our communication efforts were focused on **presenting and explaining the project to our various audiences**. We prepared printed materials such as [infographics](#) and [brochures](#), and audio-visual materials like our [motion graphics](#) that explains INNAPER in two minutes.

This was accompanied by **a strong communication strategy** that has allowed us to appear in both specialised media (e.g. [Tekniikka&Talous](#), a Finnish magazine about engineering news) and general media (e.g. [La Mecánica del Caracol](#), a regional Spanish radio program). This communication effort **has turned into an early interest in the project**. Our Twitter profile has over 1400 followers that range from papermaking, medical devices and packaging professionals to people interested in new technologies or worried about the e-waste problematic.

When joined with the dissemination at conferences and publication in journals, the communication efforts set us in the right path for the exploitation of the project's results.



04 News from our partners



Throughout this last year, **our partners have been very busy**. Here's a quick insight into what they have been up to:

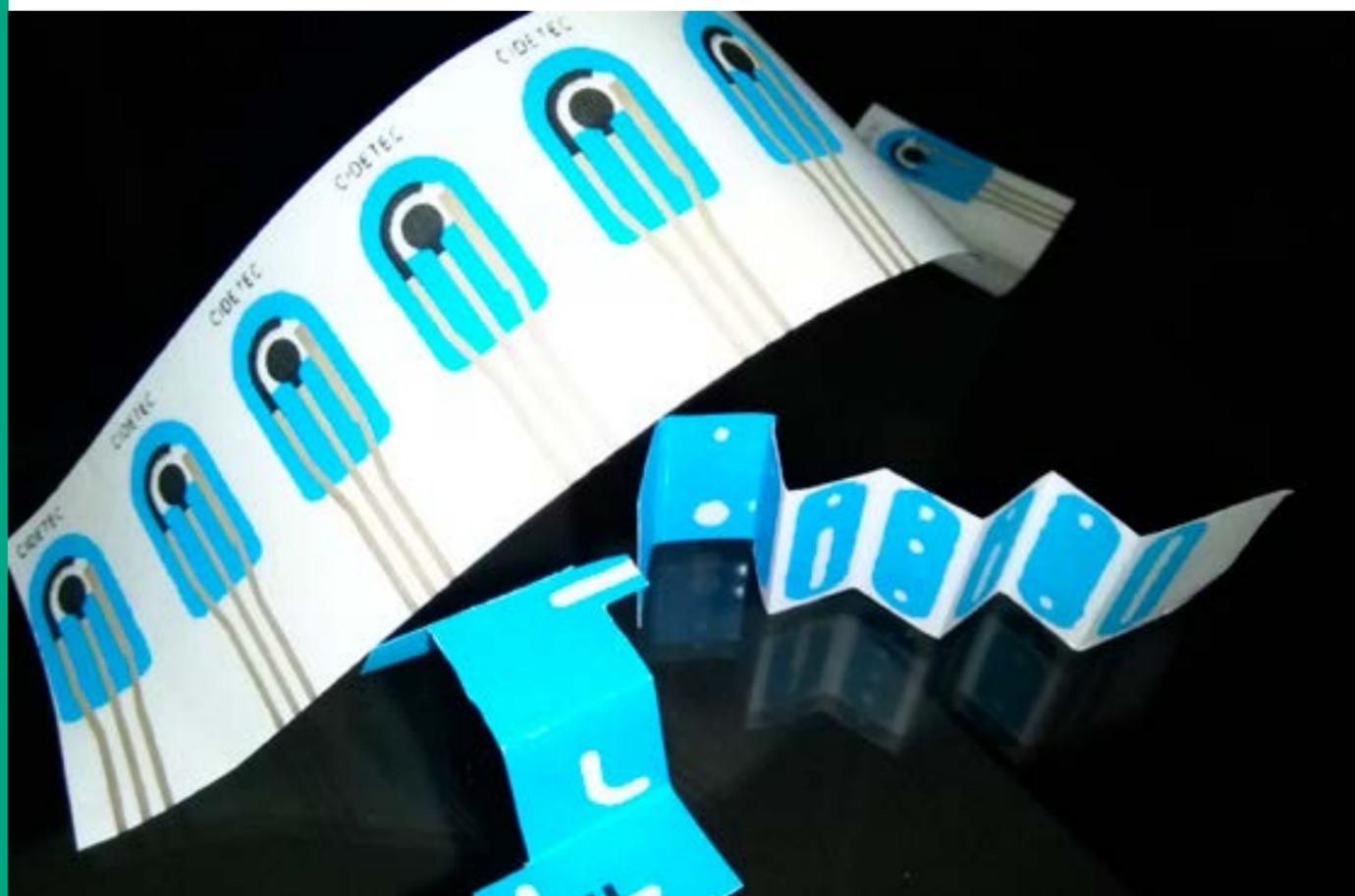
Thanks to the research done at INNAPER, **our partners at CIDETEC published a review on the existing all-in-one gel electrochromic technologies** (the basis for the INNAPER displays), analysing their strengths and weaknesses. It can be read at Materials 2018 volume 11, issue 3: <https://doi.org/10.3390/ma11030414>.

The past 20th of September, **our partner Ynvisible inaugurated a new printing line** and customer training Facility Opening day. This new sheet-to-sheet production line will enable Ynvisible to produce electrochromic devices for orders in the hundreds of thousands for products such as smart labels and Internet of things devices. You can read all about it in [their website](#), and even see the inauguration [on Youtube](#).

VTT's cellulose-based packaging solution won the Sustainability Awards 2018 awarded by Packaging Europe. They have developed a compostable three-layered material solution that looks and performs like plastic but is made from nature's own raw material: cellulose. If you want to know more about this award, pass by [our partner's website!](#)



06 What's next?



Overall, 2018 has been a good start for INN PAPER. On the following months, we will begin interconnecting the different devices of our common electronic platform,, keep refining our manufacturing process and coordinating the pilot line production among our partners.

If you want to meet us and talk with us to see how the project goes and how we can collaborate, save these dates! We will be attending the following events in 2019:

- **19-21 March:** [LOPEC Conference](https://www.lopec.com/index.html) in München, Germany. <https://www.lopec.com/index.html>
- **31 March – 4 April:** [Chemistry for New Frontiers](#). 257th ACS National Meeting & Exposition in Florida USA.
- **10-11 April:** [Printed Electronics Europe](#) in Berlin.
- **1-4 September:** 9th [International Conference on Life Cycle Management](#) in Poznan, Poland.

For any new updates, follow us on our social media profiles! [Twitter](#) and [Facebook](#).



07 Contact



If you wish to have more information about the project **do not hesitate to contact us!**

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Twitter: [@Innpaper_eu](https://twitter.com/Innpaper_eu)

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