



## FIRST Newsletter

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### Welcome! First S4 T-STAR Systems Installed

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Recently, the new TXRF spectrometer **S4 T-STAR** was [introduced](#). This top-of-the-line system with two X-ray tubes, 90 sample-disc capacity and automated quality control procedures was well received in the field of analytical chemistry and customer orders were placed right after the market introduction.

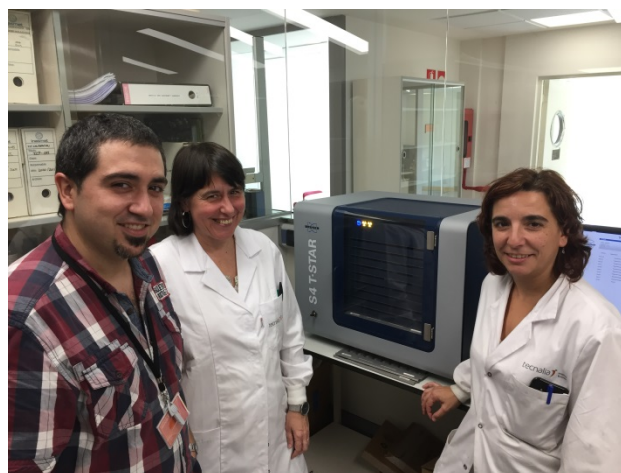
Since the end of September, first systems were installed at [Tecnalia](#) in San Sebastian, Spain, followed by a system in Germany and a system in the USA.

Tecnalia Research & Innovation is a non-profit research organization. Legally a foundation, Tecnalia is the leading private and independent research and technology organization in Spain and amongst the largest in Europe, employing around 1,300 people (225 PhDs) with an income of 100.2 Million € in 2016.

The S4 T-STAR was installed in the *Materials for Energy & Environment* division, which is focused on optimizing processes and materials properties while reducing the impact of the different technologies. The S4 T-STAR will mainly be used for giving support to the *Waste Valorization* group, increasing the analytical capabilities of the group and accelerating the research activities.

The instrument administrator, Jokin Hidalgo, explains: "One key task of our group is treating waste residues or end of life products, either for reducing the impact of the disposal, or recycling and recovering compounds of interest. Amongst the ongoing projects, nowadays we are working in recovering rare earths (Nd, Pr, Dy, Ce), platinum group metals (Pt, Pd, Rh), and other critical raw materials. Due to the ease of use and low cost of operation, TXRF is an ideal complementary tool to our existing analytical devices."

We wish Jokin, Carmen and Ana much success with their new S4 T-STAR spectrometer.



*Jokin, Carmen and Ana of Tecnalia are the happy owners of the first S4 T-STAR installation.*

And if you would like to visit Tecnalia, San Sebastian is a very nice location for vacation and the best place for Spanish tapas.