In 2018, for the first time ever, the DVB project produced a technical specification allowing the cooperation between satellite & terrestrial broadcast platforms, to achieve countrywide coverage at economical cost.

In many country using DVB specifications, both satellite and terrestrial distribution platforms are used to deliver wirelessly the National TV programmes to 100% of the citizens and accordingly, the Terrestrial platform used transmission links independent of the Direct to Home (DTH) satellite one. As a consequence the components of the National broadcast services (i.e. video, audio, data, EPG, etc.) are delivered twice: to DTH set top boxes and to terrestrial transmitter sites.

The DVB-SIS (Single Illumination System) allows rebuilding deterministically in each transmitter site a multiplex of terrestrial broadcast services from the ones already available on DTH satellite multiplexes, and from other local services targeting a specific region.

My DVB-SIS presentation will explain how DVB standardised a deterministic re-multiplexing function in order to operate Terrestrial SFN (Single Frequency Network), either DVB-T or DVB-T2, either countrywide or region-wide, while permitting interoperability of multi-vendors equipment.
Gerard FARIA is retired from the Broadcast sector since the 1st February 2018 and Senior Consultant in CommGFA (France) since the 1st September 2018.

In the past, Gerard FARIA & Jean-Luc PAVY co-founded ITIS (1988), which became part of Harris Corporation in 1997 and TeamCast (2003), which became a wholly subsidiary of ENENSY Technologies in June 2017.

During his professional life, Gerard contributed to numerous European standards within the DVB forum (1997 onward) and to the elaboration of the American ATSC3.0 system (2013 onward). Gerard also managed numerous European Collaborative Research projects focused on Digital Terrestrial Broadcast and contributed to the popularization of Digital Broadcast standards during International Conferences.

Aside from his operational activities in these structures, Gerard FARIA was Vice-President of a French competitiveness cluster “Images & Réseaux” and the company representative at the Future of Broadcast TV (FOBTV) Initiative.

After 40 years of activities in the Broadcast Industry, including 30 years devoted to SME’s development, Gérard retired on 31st January 2018.