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Space 4.0 – spurring sustainable space business

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Abstract

Space 4.0 identifies the evolution of the space sector into a new era, characterised by a more and more interconnected and dynamic playing field, where the interaction among multiple and diverse space actors around the world, e.g. private companies, academia, industry and citizens generates new needs and opportunities.

This era is unfolding through interaction between governments, private sector, society and politics. Space 4.0 is analogous to, and is intertwined with, Industry 4.0, which is considered as the unfolding fourth industrial revolution of manufacturing and services.

In line with its purpose, The European Space Agency aims at leading the European space sector through the transformations required to adapt to the Space 4.0 era in order to foster its global competitiveness and fully integrate its benefits into the European society and economy through sustainable space business activities.

Andrea Vena - Andrea Vena is heading the Corporate Development Office at the European Space Agency. He's married with three children. Graduated in Electronic Engineering, he started his career as system engineer in Alenia Spazio, the space branch of Finmeccanica (today Leonardo). In 1995, he was appointed head of European Union marketing unit coordinating the Company's activities and programmes with EU institutions.

In 2000, Mr Vena joined ESA and in 2007 he was appointed head of the Corporate Strategic Planning office. Since 2016, he's heading the Corporate Development Office, in charge of establishing a corporate strategy for the development of the organisation.