



Congreso de los Diputados

20ª CONFERENCIA INTERPARLAMENTARIA EUROPEA DEL ESPACIO, CELEBRADA EN EL SENADO DE BÉLGICA EN BRUSELAS LOS DÍAS 15 Y 16 DE OCTUBRE DE 2018

En su reunión de 18 de septiembre de 2018, la Mesa del Congreso de los Diputados autorizó el desplazamiento de una delegación de la Comisión de Ciencia, Innovación y Universidades para asistir a la 20ª Conferencia Interparlamentaria Europea del Espacio, celebrada por el Senado de Bélgica en Bruselas los días 15 y 16 de octubre de 2018.

La delegación de la Comisión estuvo compuesta por:

- Excmo. Sr. D. Rubén MORENO PALANQUES, Vicepresidente Primero de la Comisión y Diputado del Grupo Parlamentario Popular;
- Excmo. Sra. D^a. Soledad Amada VELASCO BAIDES, Secretaria Primera de la Comisión y Diputada del Grupo Parlamentario Socialista;
- Excmo. Sra. D^a. Tania SÁNCHEZ MELERO, Diputada del Grupo Parlamentario de Unidos Podemos-En Comú Podem-En Marea;
- Excmo. Sra. D^a. Irene RIVERA ANDRÉS, Portavoz en la Comisión del Grupo Ciudadanos.

La delegación fue acompañada por D. Ignacio CARBAJAL IRANZO, Letrado de la Comisión, y atendida por D^a. Carmen SÁNCHEZ-ABARCA GORNALS, Letrada de las Cortes Generales ante la Unión Europea.

La delegación de la Comisión del Congreso de los Diputados coincidió con una delegación de la Comisión de Ciencia, Innovación y Universidades del Senado compuesta por los siguiente Senadores:

- Excmo. Sr. D. Manuel BETEGÓN BAEZA, Portavoz en la Comisión del Grupo Parlamentario Popular;
- Excmo. Sr. D. Ángel Manuel MATO ESCALONA, Senador del Grupo Parlamentario Socialista;
- Excmo. Sra. D^a. María Vanessa ANGUSTIA GÓMEZ, Portavoz en la Comisión del Grupo Parlamentario Unidos Podemos-En Comú Podem-En Marea.



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15 octubre 2018

Tras su llegada a Bruselas, la delegación se reunió con el **Sr. Jorge NOTIVOLI, Ministro Consejero de la Embajada de España ante el Reino de Bélgica.**

Paralelamente tuvo lugar en el Senado de Bélgica una reunión de secretarios de delegaciones para preparar el borrador de la Resolución que sería sometida al día siguiente al plenario. En dicha reunión, se introdujeron modificaciones propuestas por la delegación española en relación con los siguientes temas: la necesidad de facilitar la interoperabilidad y los estándares abiertos de big data, una referencia a la elaboración de una estrategia nacional de los Estados en materia espacial; y reiterar la mención a la lucha contra la basura espacial que ya se introdujo en la Resolución de la 19ª Conferencia celebrada en Estonia.

A las 19 horas tuvo lugar en las salas de protocolo de la Presidencia del Senado de Bélgica un coctel seguido de una cena para las delegaciones, bajo la presidencia del **Sr. Yves EVRARD, senador belga**, que excusó a su compañera, la **Sra. Christie MORREALE, senadora belga**, que tuvo que ausentarse como consecuencia de las negociaciones postelectorales tras las elecciones locales celebradas el día 14 de octubre. El **Sr. Johann-Dietrich (Jan) WOERNER, director general de la Agencia Europea del Espacio (ESA)**, intervino brevemente al inicio de la cena.

16 octubre 2018

La sesión inaugural de la 20ª Conferencia tuvo lugar en el salón de plenos del Senado de Bélgica a las 9:10 horas con unas palabras de bienvenida del **Sr. Yves EVRARD**. A continuación, tomó la palabra el **Sr. Jacques NIJSKENS, de la División de Aplicaciones e Investigación Espaciales de la Agencia Belga de Política Científica (Belspo)**, que expuso la labor que organiza su organización, que cuenta con un presupuesto de 205 millones de euros. Asimismo, hizo hincapié en los diferentes retos que afronta su Agencia.

El **Sr. Johann-Dietrich WOERNER, director general de la Agencia Europea del Espacio (ESA)**, intervino para explicar la labor de ESA, como facilitadora de la cooperación entre Estados Miembros en todos los ámbitos relacionados con el espacio. En relación con el big data, aludió a que se trata de gestionar, no tanto un gran volumen de datos, sino datos de diferentes orígenes. Ese big data está sirviendo ahora mismo a ESA para gestionar aplicaciones que gestionan información en ámbitos muy diversos que van desde las rutas marítimas hasta la monitorización del cambio climático. La ESA está



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desarrollando su programa de Espacio 4.0 que tiene por objeto proporcionar una cadena de innovación desde el momento del descubrimiento hasta la aplicación comercial. La ESA mantiene para ello acuerdos con universidades y promueve viveros para *start ups* y empresarios del sector. Finalmente, el director general de ESA aludió a la necesidad de mantener la “cadena de la motivación” que empieza con la fascinación por el espacio y sus posibilidades.

A continuación intervino el **Sr. Jean-Marie BOCKEL, senador francés**, que aludió a los puntos fuertes de la cooperación espacial, en la que se ha pasado de una lógica de la soberanía a una lógica más comercial, centrada en la necesidad de buscar un valor añadido para las aplicaciones industriales. En este sentido, felicitó a la presidencia belga de la Conferencia por centrar las intervenciones en la innovación empresarial y en la comercialización de las aplicaciones del espacio.

Por su parte, el **Sr. Karstein EIDEMLOVAAS, diputado noruego**, intervino para hacer referencia al uso que hace Noruega de las innovaciones espaciales, centrado principalmente en los usos para la navegación marítima. Tras mencionar la importancia de acuerdos con Rusia para la ruta del Mar del Norte, recordó que el Gobierno noruego ha anunciado que presentará un proyecto de ley sobre el espacial en 2020.

El **Sr. Paul LIIAS, diputado del Parlamento de Estonia**, mencionó en su intervención la cooperación en materia satelital, así como la necesidad de prever una plataforma como estándar global para la interoperabilidad de los datos relacionados con el big data.

Finalmente, el **Sr. Klaus-Peter WILLSCH, diputado del Bundestag alemán**, mencionó la importancia de la política espacial para Alemania, que incluso llegó a ser mencionada en el acuerdo de coalición gubernamental, y se manifiesta parlamentariamente en la existencia de un intergrupo sobre materia espacial de la que forman parte 156 diputados, así como en una estrategia espacial aprobada en 2010, en cuya elaboración participaron muchos actores. La investigación en el ámbito espacial tiene claras aplicaciones en los ámbitos de las comunicaciones, del transporte y la inteligencia artificial, y todo ello plantea una serie de retos. Recientemente, en Alemania se está debatiendo sobre la cobertura de los riesgos de la actividad espacial, especialmente en el ámbito de la responsabilidad en caso de accidentes. En cuanto al big data, el diputado aludió a la necesidad de aprovechar al máximo los datos obtenidos, así como a tener en cuenta la carga de procesamiento de esos datos. El big data tiene aplicaciones muy importantes en el ámbito de la protección civil en caso de catástrofes, así como en el



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ámbito de la defensa. Por otra parte, es preciso elaborar programas transectoriales y multidisciplinarios, para que puedan hacer uso de los datos el mayor número de sectores, desde los vehículos de motor en carretera hasta los agricultores. En este contexto, es preciso garantizar la seguridad de los datos y optimizar su uso.

Sesión 1: Big data para áreas específicas

Tras la foto de grupo en la escalera del Senado y una breve pausa café, a las 11 horas, el **Sr. Kai-Uwe SCHROGL, responsable de Estrategia de ESA** y moderador de la primera mesa de debate, dio la palabra al **Sr. Pascal LEGAI, director del SatCen**, que aludió en su intervención a las aplicaciones del SatCen, ubicado en Torrejón de Ardoz (España), en materia civil y de apoyo a la dimensión de política exterior y de seguridad común de la UE. El interviniente hizo especial alusión al uso de satélites para controlar las regiones fronterizas de Siria y Ucrania, así como para evitar la proliferación armas de destrucción masiva y controlar las cuestiones migratorias. Así, el SatCen está haciendo uso del big data y de la inteligencia artificial para predecir modelos de movimientos migratorios, entre otras aplicaciones.

A continuación, tomó la palabra el **Sr. Frederic ADRAGNA, director de aplicaciones en la innovación y Ciencia del Centro Nacional de Estudios Espaciales francés**, que planteó en su intervención el papel que debe desarrollar en la actualidad una agencia espacial nacional, en un contexto de democratización y entrada de actores privados. El orador afirmó que las agencias nacionales deben jugar un papel de aceleradores de la innovación, fomentando los viveros empresariales y de investigación en el sector, mediante todo tipo de vías, incluyendo la de la financiación a través novedosas fórmulas como la de capital riesgo.

El **Sr. Nico VAN PUTTEN, director adjunto de la Oficina Neerlandesa del Espacio**, aludió en su intervención a las posibilidades de la cadena de valor del espacio, en la que los datos procedentes del espacio a través de la red de satélites y el big data proporcionan información que pueden ser de utilidad para diversas aplicaciones. También mencionó los retos, tanto económicos, como técnicos y legales del big data y del uso de esta información.

Finalmente, el **Sr. Gilles OLLIER, jefe del sector de observación terrestre de la Dirección General de Investigación y Desarrollo de la Comisión Europea**, intervino para aludir a la labor realizada por su dirección general en sus 40 años de política de



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investigación y desarrollo de la Comisión, que cuenta para el periodo 2014-2020 con un presupuesto de 77 mil millones de euros. La observación terrestre tiene aplicaciones relacionadas con la cooperación al desarrollo y con la salud. El orador aludió finalmente a la propuesta de “Horizonte Europa”, presentada por la Comisión, en el que se perfilará el futuro de la investigación y desarrollo en Europa.

Presentación y entrega de premios de ESA-EISC, Espacio por la sostenibilidad

A las 12 horas comenzó esta sección del programa, en la que el **Sr. Gilles OLLIER** presentó los ganadores de la edición 2018 así como la mención especial otorgada por el jurado.

Dicha mención especial fue concedida al **Sr. Antonio GIMÉNEZ**, de 22 años, que intervino para presentar su proyecto para evitar la colisión de nanosatélites, que estudia las posibles vías para limitar el número de satélites en órbita, y que permitiría reducir la basura espacial y combatir otros problemas que un exceso de satélites puede causar. Propuso a su vez crear una red de control, abierta al público, que democratizaría estos recursos.

A continuación intervinieron los ganadores del premio 2018, la **Sra. Ariane BOUILLY** y el **Sr. Romain ESTEVE**. El tercer integrante de este equipo ganador, el **Sr. Olivier FERRAGE**, no pudo acudir por encontrarse en China. Explicaron que su proyecto se centraba en la salud de las abejas y la mejora de la polinización en Europa, dado el fuerte descenso en el número de abejas en Europa en los últimos años, debido entre otros factores al uso de pesticidas. Aplicaron un algoritmo que detecta los mejores hábitats para instalar colmenas, y prevén así mismo crear una aplicación para permitir su uso a gran escala. Esperan que su proyecto permita mejorar la producción de miel y ciertas plantas, y contribuya a la conservación del medio ambiente y la biodiversidad.

Una vez presentados los proyectos ganadores, los Presidentes de la EISC procedieron a la entrega de los premios a los jóvenes.

Sesión 2: Temas relativos a la cadena de big data

Tras la pausa de la comida y una visita al Parlamento federal belga, comenzó la sesión 2, que fue moderada por el **Sr. Jean Jacques TORTORA**, **Director del Instituto de la Política Espacial europea**.



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La primera intervención de esta sesión corrió a cargo del **Sr. Marc TONDRIAUX, Presidente de TerraNIS**, empresa creada en 2015 con el objetivo de usar las técnicas de observación de la tierra e inteligencia artificial con fines agrícolas, medioambientales y vitícolas. Esta PYME cuenta con unos 20 empleados, y ofrece servicios de supervisión de viñedos, de terrenos de cultivo y de búsqueda de recursos naturales. El orador subrayó la fragmentación empresarial en este sector, que reduce tanto los posibles avances tecnológicos como los beneficios empresariales.

El **Sr. Massimo Claudio COMPARINI, CEO de e-GEOS**, expuso en su intervención los avances en las tecnologías espaciales, en concreto para la economía espacial, y el efecto del incremento del número de satélites en órbita. Aludió asimismo a la geo-información, que a través del *big data* es capaz de producir productos con información valiosa para las empresas.

El **Sr. Paul CUNET, jefe de Estrategia y Relaciones Internacionales de EUMETSAT**, intervino a continuación para explicar que EUMETSAT se dedica a procesar información del clima, obtenida por satélite, y ofrecer el resultado a las agencias nacionales de previsión meteorológica, ayudando, entre otras tareas, en la prevención de huracanes.

El **Sr. Volker LIEBIG, asesor senior para Servicios Digitales, Comunicaciones, Inteligencia y Seguridad de AIRBUS**, centró su intervención en los nuevos servicios digitales de Airbus en relación con el big data, entre los que destacan la recolección de datos, la seguridad de las comunicaciones y la monitorización de cambios forestales.

El **Sr. Nicolaus HANOWSKI, jefe del Departamento de Gestión de misiones y Segmentos de tierra de ESA**, expuso el trabajo de su Departamento, que gestiona cada día una cantidad de información equivalente a 50.000 DVD (lo que colocado en una torre alcanzaría una altura equivalente al Big Ben).

Sesión 3: Cuestiones legales relativas a la regulación del big data de las actividades espaciales.

Tras la pausa del café, comenzó esta 3ª y última sesión, que fue moderada por el **Sr. Jan WOUTERS, profesor titular de la Universidad Católica de Lovaina**, que planteó cuatro cuestiones acerca del big data: en primer lugar, una cuestión conceptual sobre qué es el big data, que es esencial para poder desarrollar su marco regulatorio; en segundo



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lugar, la privacidad y protección de datos, en el mercado de imágenes de alta resolución, que implica riesgos legales de nuevo cuño; el tercero es el de los derechos de propiedad, pese a que algunos sectores son abiertos; y por último, se preguntó si la regulación debería ser o no vinculante, con los efectos que ello podría tener sobre la seguridad jurídica.

En primer lugar intervino la **Sra. Maria Cristina FALVELLA, jefa de Estrategia y Unidad de Política Industrial de la Agencia Italiana del Espacio**, que habló de la política del big data espacial, destacando la necesidad de garantizar su consistencia y compatibilidad, así como de aprovechar las oportunidades que ofrece, como el desarrollo de nuevas tecnologías y el empleo altamente cualificado. Citó la definición del big data de George O. Strawn, para quien son los datos cuyo tamaño, velocidad o complejidad no es asumible por el software usualmente empleado para capturar, gestionar y procesar datos en un lapso de tiempo limitado.

A continuación, el **Sr. Gunter SCHREIER, director adjunto del Centro Aeroespacial Alemán**, quien expuso el trabajo de su Centro, y todos los datos que se ofrecen continuamente de manera abierta, con múltiples posibles usos, muy beneficiosos en muchas ocasiones.

Por último, el **Sr. Daniel QUINTART, funcionario de la Dirección General de Mercado Interior, Industria, Empresas y PYMES (DG GROWTH) de la Comisión europea**, quien se centró en el programa Copernicus, que aborda el gran reto del big data obtenido de los satélites, el derecho a su propiedad, la posible responsabilidad legal y las cuestiones de seguridad. Anunció la intención de la Comisión europea de crear un órgano para garantizar la seguridad de los big data clasificados.

Clausura de la Conferencia

A continuación, sin que hubiera tiempo para poder abrir un debate, se continuó con el orden previsto en el programa. La **Sra. Christie MORREALE** realizó la intervención final, en la que valoró muy positivamente todas las ideas que se habían expuesto y el debate de alto nivel que se había fomentado en esta Conferencia. Agradeció la presencia de todos los participantes que reflejaba, señaló, la gran importancia que los parlamentarios europeos otorgan a la política espacial y a todas las posibilidades que ofrece.



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El **Jefe de la Delegación alemana, y futuro anfitrión**, insistió en la invitación para las reuniones de Bremen y Berlín, donde se celebrará la **XXI Conferencia interparlamentaria europea del Espacio**. Retomó la idea lanzada por Estonia de aumentar la concienciación espacial, y harían hincapié así mismo en la Conferencia interministerial. Agradeció una vez más la calurosa acogida de la Presidencia belga.

Una vez los demás invitados dejaron la sala, se abrió el debate de las delegaciones sobre el texto propuesto. La delegación alemana mostró su conformidad con el texto acordado por los letrados.

Sin que se produjera ningún otro comentario sobre el texto, y confirmado el consenso, la **Sra. Christie MORREALE** consideró por tanto la propuesta de Resolución de la EISC aprobada por asentimiento. El texto de la Resolución se adjunta como anexo al presente informe.

La Conferencia finalizó a las 16:50 horas.

Congreso de los Diputados, 24 de octubre de 2018



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ANEXO 1:

PROGRAMA FINAL DE LA 20ª CONFERENCIA INTERPARLAMENTARIA EUROPEA DEL
ESPACIO, EN IDIOMA INGLÉS.



Space Platform



11 October 2018

Final Programme

20th European Interparliamentary Space Conference

“Big data: Development of value-added downstream services and applications”

15-16 October 2018
Brussels, Belgium

Monday, 15 October

Arrival of the participants

- 17:00-19:00 Registration and badge pick-up (Welcome Desk, Belgian Senate - Entrance: 7 rue de Louvain - 1000 Brussels)
- 19:00-22:00 Dinner hosted by **Christie Morreale and Yves Evrard**, EISC 2018 Co-Chairs (Venue: Presidential Reception Rooms of the Belgian Senate)

Tuesday, 16 October

Venue: Belgian Senate - Plenary Hall, Entrance: 7 rue de Louvain - 1000 Brussels

- 08:30 Registration and badges
- 09:00-09:15 Opening Session of EISC 2018. Welcome remarks by **Christine Defraigne**, Chair of the Belgian Senate and **Christie Morreale/Yves Evrard**, EISC 2018 Co-Chairs
- 09:15-09:30 Keynote Speech by **Jacques Nijskens**, General Manager, Space Research and Applications Division – Belspo (Belgian Science Policy Office)
- 09:30-09:45 Keynote Speech by **Johann-Dietrich Woerner**, Director General, European Space Agency (ESA)
- 09:45-10:30 Opportunity for statements by EISC delegations
All delegations are asked to register their statements before the event.
- 10:30-10:40 Group Photo (Venue: Staircase peristyle)



Space Platform

- 10:40-11:00 Coffee break
- 11:00-12:00 **Session 1: Big data for specific policy areas** (10' per speaker)
Moderator: **Kai-Uwe Schrogl**, Chief Strategy Officer, European Space Agency
- **Pascal Legai**, Director, SatCen
 - **Frederic Adragna**, Head of Applications in the Innovation, Applications and Science Directorate, Centre National D'Etudes Spatiales (CNES)
 - **Nico van Putten**, Deputy Director, Netherlands Space Office (NSO)
 - **Gilles Ollier**, Head of Sector Earth Observation, EC DG Research & Innovation
- 12:00-12:30 **ESA-EISC Space for Sustainability Presentation and Award Ceremony**
- 12:30-14:00 Lunch (*Venue: Le Moniteur, 42 rue de Louvain – 1000 Brussels*)
- 14:00-15:00 **Session 2: Issues for the big data value chain** (10' per speaker)
Moderator: **Jean-Jacques Tortora**, Director, European Space Policy Institute (ESPI)
- **Marc Tondriaux**, President, TerraNIS
 - **Massimo Claudio Comparini**, CEO, e-GEOS
 - **Paul Counet**, Head of Strategy and International Relations, EUMETSAT
 - **Volker Liebig**, Senior Advisor for Digital Services, Communications, Intelligence and Security, Airbus Defence and Space
 - **Nicolaus Hanowski**, Head of Mission Management and Ground Segments Department, ESA
- 15:00-15:30 Coffee break
- 15:30-16:30 **Session 3: Legal issue related to regulation of big data from space activities** (10' per speaker)
Moderator: **Jan Wouters**, Full Professor of International Law and International Organizations, Director, Leuven Centre for Global Governance Studies - Institute for International Law, KU Leuven
- **Maria Cristina Falvella**, Head of Strategy and Industrial Policy Unit, Italian Space Agency (ASI)
 - **Gunter Schreier**, Deputy Director, Business Development & Copernicus, German Aerospace Center (DLR)
 - **Daniel Quintart**, Legal Officer, EC DG Grow
- 16:30-16:45 Closing Remarks by **Christie Morreale/Yves Evrard**, EISC 2018 Co-Chairs
- 16:45-18:00 Closed Session (for EISC Full Members only) with adoption of the Resolution and introduction of the 2019 Presidency of Germany

End of the official EISC 2018 programme



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ANEXO 2:

**LISTADO FINAL DE PARTICIPANTES DE LA 20ª CONFERENCIA INTERPARLAMENTARIA
EUROPEA DEL ESPACIO.**



Space Platform

20th European Interparliamentary Space Conference

“Big data: Development of value-added downstream services and applications”

15-16 October 2018

Brussels, Belgium

TITLE	LAST NAME	FIRST NAME	POSITION	PARLIAMENT / COMPANY	COUNTRY
Ms.	ANGUSTIA	Maria Vanessa	Senator	Senate	Spain
Mr.	BETEGÓN	Manuel	Senator	Senate	Spain
Mr.	BOCKEL	Jean-Marie	Senator - chairman of GPE	Senat	France
Ms.	CIGANE	Lolita	Chairperson of the European Affairs Committee	Saeima	Latvia
Ms	DEFRAIGNE	Christine	Speaker of the Belgian Senate	Senate	Belgium
Mr.	EIDEM LØVAAS	Kårstein	MP	Stortinget/Norwegian parliament	Norway
Mr.	EVARD	Yves	Député -Sénateur	Parlement de Wallonie, de la Fédération wallonie Bruxelles et Sénat	Belgique
Mr.	HAFENECKER	Christian	Member of Parliament	National Council	Austria
Ms.	HIMMELBAUER	Eva-Maria	Member of Parliament	National Council	Austria
Mr.	MAGNITZ	Frank Rüdiger Heinrich	MdB (MP)	Deutscher Bundestag	Germany
Mr.	MATERNA	Jerzy	Chair Polish Space Group	the Sejm	Poland
Mr.	MATO	Ángel Manuel	Senator	Senate	Spain



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TITLE	LAST NAME	FIRST NAME	POSITION	PARLIAMENT / COMPANY	COUNTRY
Mr.	MENACHO	Francisco	Senator	Senate	Spain
Mr.	MORENO PALANQUES	Ruben	Vicepresident Science Committee	Congress of Deputies	Spain
Ms.	MORREALE	Christie	Sénatrice	Sénat de Belgique	Belgique
Mr.	PUDŁOWSKI	Paweł	Vice-chair Polish Space Group	the Sejm	Poland
Ms.	RIVERA ANDRES	Irene	Member of the Science Committee	Congress of Deputies	Spain
Ms.	SANCHEZ MELERO	Tania	Member of the Science Committee	Congress of Deputies	Spain
Mr.	SOCOTAR	Gheorghe - Dinu	MP - member in the Subcommittee on Space, Committee for information technologies and communications	Parliament of Romania - Chamber of Deputies	Romania
Mr.	SZLACHTA	Andrzej	Member Polish Space Group	the Sejm	Poland
Mr.	THEOPEMPTOU	Charalambos	Member of Parliament	House of Representatives of the Republic of Cyprus	Cyprus
Mr.	WILLSCH	Klaus-Peter	MP, Chairman of Aviation and Space Group	Deutscher Bundestag	Germany



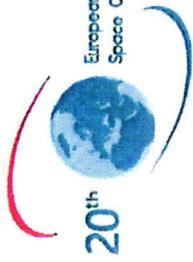
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TITLE	LAST NAME	FIRST NAME	POSITION	PARLIAMENT / COMPANY	COUNTRY
Mr.	BARBOLANI DI MONTAUTO	Giulio	Deputy Head of ESA Brussels Office	European Space Agency ESA	Belgium
Mr.	BECLARD	Julien	Attaché	BELSPO	Belgium
Ms.	BOUILLY	Ariane	Ecodesign Engineer	Airbus Defence and Space	Germany
Mr.	CARBAJAL IRANZO	Ignacio	Clerk to the Science Committee	Congress of Deputies	Spain
Mr.	CLERVOY	Jean-Francois	Astronaut	NOVSPACE / ESA	France
Mr.	COMPARINI	Massimo	CHIEF EXECUTIVE OFFICER	e-GEOS	Italy
Ms.	CONTI	Patricia	Director - Economic Affairs	Luxembourg Space Agency	Luxembourg
Ms.	COOSEMANS	Danielle	Programme Manager	BELSPO	Belgium
Mr.	COQUAY	Pierre	Conseiller	BELSPO	Belgium
Mr.	COUNET	Paul	Head of Strategy, Communication and International Relations	EUMETSAT	Germany
Ms.	CROMBET	Anne	interpreter	interpreter	Belgium
Mr.	DE BROUWER	René-François	Interpreter	Max de Brouwer	Belgique
Mr.	DE VROEY	Damien	Political advisor on scientific matters	Belgian Federal Parliament and Senate	Belgium
Mr.	DUDOK	Evert	Executive Vice President Communications, Intelligence and Security	Airbus Defence and Space GmbH	Germany
Mr.	ESTEVE	Romain	Economist	London Economics Ltd	United Kingdom
Ms.	FALVELLA	Maria Cristina	Head of Strategies and Industrial Policy	Italian Space Agency	Italy
Mr.	FOBE	Jean-Michel	President	Eutrax Aerospace Consulting	Belgium
Mr.	FUSSEN	Didier	Head of Department	BIRA-IASB	Belgium
Ms.	GIANNOPAPA	Christina	Head, Political Affairs Office	European Space Agency	France



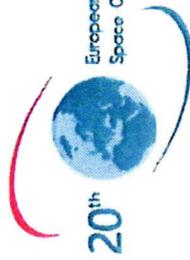
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TITLE	LAST NAME	FIRST NAME	POSITION	PARLIAMENT / COMPANY	COUNTRY
Mr.	GILSON	Philippe	CEO	AMOS	Belgique
Mr.	GIMÉNEZ NADAL	Antonio	Non-ESA Staff	ESA	Spain
Mr.	GRAZI	Riccardo	President & CEO	Vitrociset Belgium Sprl	Belgium
Mr.	GUEUBEL	Roland	B-LIFE Director	Université catholique de Louvain - CTMA	Belgium
Mr.	HANOWSKI	Nicolaus	Head of Mission Management and Ground Segments Department	ESA	Italy
Mr.	HOERKENS	Andreas	Head of Office Berlin	ArianeGroup	Germany
Mr.	HOLSTERS	Peter	Business Development & Sales Manage satellites	QinetiQ Space	Belgium
Ms.	HOMBURG	Marie	Interpreter	Marie-Laurence Homburg	Belgique
Ms.	KUSMIERCZYK	Sandra	EU and International Service	Austrian Parliamentary Administration	Austria
Mr.	LEGAI	Pascal	Director	European Union Satellite Centre	Spain
Ms.	LEURQUIN	Christine	VP Institutional Relations and Communications	SES	Belgium
Mr.	LIEBIG	Volker	Senior Advisor Digital Services	Airbus Defence and Space GmbH	Germany
Mr.	LIETH	Georg	DLR Space Administration Brussels Representative	DLR German Aerospace Center	Belgium
Mr.	LIAS	Paul	Expert in Space Technologies	Ministry of Economic Affairs and Communications	Estonia
Mr.	LUKAS	Ellenrieder	EU Policy Analyst	Airbus	Belgium
Mr.	MAYENCE	Jean François	Attaché Conseiller juridique	BELSCO	Belgium
Mr.	MICHELSEN	Patrick	Senior Legal Advisor	Indigo Legal	Belgium
Ms.	MIRAILLES	Marion	CSR Officer	ESA	France
Ms.	MOENS	Sarah	board member	European Centre for Space Law	Belgium
Mr.	MONTENY	Frank	Director General	Belgian Science Policy Office	Belgium
Mr.	NEDELUCU	Ion	Expert	Romanian Space Agency	Romania
Ms.	NEOPHYTOU	Georgia	International Relations Officer A'	House of Representatives of the Republic of Cyprus	Cyprus



Space Platform

TITLE	LAST NAME	FIRST NAME	POSITION	PARLIAMENT / COMPANY	COUNTRY
Mr.	NIJSKENS	Jacques	Director of the Space Department	Belgian Science Policy Office - BELSPO	Belgium
Mr.	OLLIER	Gilles	Head of Sector Earth Observation	EC - DG RTD	Be
Ms.	ORES	Paula Marta	INTERPRETER	SENATE	Spain
Mr.	ORTEGA PEREZ	Mario	Project Officer for Latin America and the Caribbean	Finnova Regio	Belgium
Mr.	OSTROVSKIS	Girts	Representative of the Parliament of Latvia to the EU	Saeima	Latvia
Ms.	OTSTAVEL	Enel	Adviser	Riigikogu	Estonia
Ms.	PARRELLA	Rosa Maria	Officer	Agenzia Spaziale Italiana	Italy
Ms.	PAVESI	Giulia	PhD Researcher (under Prof. Jan Wouters)	KU Leuven	Belgium
Mr.	PELEMAN	Martin	Senior Adviser- Committee department	Belgian House of Representatives	Belgium
Ms.	PILVRE	Barbi	Head of EISC Estonia delegation, Member of Parliament	Parliament of Estonia	Estonia
Ms.	PIREAUX	Sophie	Attachée du Service Spatial	Belgian Science Policy Office	Belgium
Ms	PUSKA	Dora	Permanent Representative based in Brussels	Hungarian National Assembly	Hungary
Mr.	QUINTART	Daniel	Legal Officer	European Commission	Belgium
Mr.	RABIN	Gilles	DIRECTOR	CNES French Space Agency	France
Mr.	RAMOS	Juan Pablo	Business Development Manager	QinetiQ Space	Belgium
Ms.	REMUSS	Nina-Louisa	Deputy Head Berlin Office	DLR	Germany
Mr.	RIBOT	Alfonso	INTERPRETER	SENATE	Spain
Mr.	ROBSTAD	Bjørn willy	Senior adviser	Stortinget/Norwegian parliament	Norway
Mr.	ROCHUS	Pierre	PROFESSOR	UNIVERSITY OF LIEGE CSL	Belgium
Mr.	ROUVROI	Fernand	Business Group Leader Space	Agoria	Belgium
Mr.	RUDLOFF	Patrick	Head of EU & NATO Affairs	Airbus	Belgium
Ms.	SAWA	Mary	Permanent Representative of the House of Representatives of the Republic of Cyprus to the European Parliament	House of Representatives of the Republic of Cyprus	Belgium
Ms.	SCHMITT	Ramona	Assistant	Deutscher Bundestag	Germany



Space Platform

TITLE	LAST NAME	FIRST NAME	POSITION	PARLIAMENT / COMPANY	COUNTRY
Mr.	SCHREIER	Gunter	Deputy Director	German Aerospace Center	Germany
Mr.	SCHROGL	Kai-Uwe	Chief Strategy Officer	European Space Agency	France
Ms.	SHEVTSOVA	Valentina	Senior researcher	University of Brussels, ULB	Belgium
Mr.	SIMON	Paul	Honorary Director	IASB	Belgique
Ms.	SOTIRIOU GEORGIOU	Maria	Permanent Representative of the House of Representatives of the Republic of Cyprus to the European Parliament	House of Representatives of the Republic of Cyprus	Belgium
Mr.	STASSART	Michel	Deputy Managing Director	SKYWIN Wallonie	Belgique
Mr.	TONDRIAUX	Marc	president	Terranis	France
Mr.	TORTORA	Jean-Jacques	Director	ESPI	Austria
Mr.	TUGNOLI	Matteo	Research Fellow	ESPI	Austria
Mr.	VALERO	Juan Luis	Head of Brussels Office	European Union Satellite Centre	Belgium
Mr.	VAN HERREWEGE	Glenn	Policy Advisor	Flemish Government	Belgium
Mr.	VANDERHAEGHEN	Francis	Strategic advisor	VITO	Belgium
Ms.	VELASCO BAIDES	Soledad Amada	Secretary of the Science's Committee Bureau	Congress of Deputies	Spain
Mr.	VERBEKE	Tom	Attaché	Belgian Science Policy Office	Belgium
Mr.	VERSCHUEREN	Werner	Belgian ESA Delegation	BELSPO	Belgium
Mr.	WOERNER	Johann-Dietrich	Director General	European Space Agency - ESA	France
Mr.	WOUTERS	Jan	Professor of International Law	KU Leuven	Belgium
Ms.	ZARKAN	Laetitia	Institutional Relations and Communications	SES	Belgium
Ms.	ZYLINSKA	Beata	Secretary Polish Space Group	the Sejm	Poland



Congreso de los Diputados

ANEXO 3:

**BREVE RESEÑA DE LOS ORADORES NO PARLAMENTARIOS DE LA 20ª CONFERENCIA
INTERPARLAMENTARIA EUROPEA DEL ESPACIO, EN IDIOMA INGLÉS.**



Space Platform



Jacques Nijskens



Studies in Agricultural Engineering (Genie rural) (1977) with a PhD in Agricultural Sciences (1986)

Work experience: a 12 years carrier as researcher in the field of Energy saving in greenhouses.

Since end 1990, working at Belspo (Science Policy Office) and in charge of the Belgian delegation:

- in different international organisations : ESA, EUMETSAT, ECMWF, EU, Bilateral Belgium / France;
- in different fields of Spacer activities : Earth Observation, Space Station, Telecommunication, Space Technologies;
- with several functions : delegate in programme committees, delegate for the industrial policy, Council delegate.

Since 2012, Head of the space department at Belspo and head of delegation to ESA.



Space Platform



Johann-Dietrich Woerner



Johann-Dietrich 'Jan' Wörner became the ESA Director General on 1 July 2015.

Previously, from March 2007 to June 2015, he served as Chairman of the Executive Board of the German Aerospace Center (DLR).

Jan Wörner was born in Kassel, Germany, in 1954. He studied civil engineering at the Technical University (TU) Berlin and TU Darmstadt, from where he graduated in 1985. In 1982, as part of his studies, he spent one year in Japan, investigating earthquake safety of nuclear power plants. Until 1990, Mr Wörner worked for consulting civil engineers König und Heunisch.

In 1990 he returned to TU Darmstadt, where he was appointed as a professor of Civil Engineering and took over as Head of the Test and Research Institute. Before being elected as President of TU Darmstadt in 1995, he held the position of Dean of the newly established Civil Engineering Faculty. Jan Wörner headed the university from 1995 to 2007 and succeeded in making it the first autonomous university of the Federal Republic of Germany.

Jan Wörner has been awarded numerous prizes and positions, such as the Prize of the Organisation of Friends of Technical University Darmstadt for 'outstanding scientific performance'. He was also appointed to the Berlin Brandenburg Academy of Sciences and to the Convention for Technical Sciences (acatech) and is a representative of the Technical Sciences Section of the Leopoldina, the national academy of sciences of Germany.

Johann-Dietrich Woerner

Jan Wörner has received honorary doctorates from New York State University at Buffalo (USA), technical universities of Bucharest (Romania) and Mongolia, the Saint Petersburg University for Economics and Finance (Russia) and École Centrale de Lyon (France). He has received the Federal Cross of Merit (Officer's cross, 1st class) of the Federal Republic of Germany for his continuous efforts regarding the next generation of scientists and Germany as a location for Science, Technology and Engineering. He has furthermore been awarded the honours of Knight of the French Légion d'Honneur.

Jan Wörner was Vice President of the Helmholtz Association and also a member of various national and international supervisory bodies, advisory councils and committees. He was a member of the administrative boards of École Centrale Paris, École Centrale de Lyon, TU Berlin, the Instituto Superior Técnico, University of Lisbon, the Arts and Music University in Frankfurt and has been a member of a number of supervisory boards including Carl Schenck AG, Röhm GmbH, TÜV Rheinland AG and Bilfinger SE.

Furthermore, he was appointed to the energy expert group of the German Government.

Before joining ESA as Director General, Jan Wörner was head of the German delegation to ESA from 2007 to 2015 and served as Chairman of the ESA Council from 2012 to 2014.



Space Platform



Prof. Dr. Kai-Uwe SCHROGL



Prof. Dr. Kai-Uwe SCHROGL is the Head of the Relations with Member States Department in the Director General's Cabinet of the European Space Agency (ESA, Headquarters in Paris, France). From 2007 to 2011 he was the Director of the European Space Policy Institute (ESPI) in Vienna, Austria, the leading European think tank for space policy. Prior to this, he was the Head of the Corporate Development and External Relations Department in the German Aerospace Center (DLR) in Cologne, Germany.

Currently he is the chairman of the Legal Subcommittee of the United Nations Committee on the Peaceful Uses of Outer Space, the highest global body for space law making, comprising 73 Member States. He also served as the chairman of other bodies as the ESA International Relations Committee. He presented, respectively testified, at hearings of the European Parliament and the U.S. House of Representatives.

Kai-Uwe SCHROGL is Vice President of the International Institute of Space Law, Member of the International Academy of Astronautics (recently chairing its Commission on policy, economics and regulations) and the Russian Academy for Cosmonautics as well as Corresponding Member of the French Air and Space Academy.

Kai-Uwe SCHROGL has written or co-edited 15 books and more than 130 articles, reports and papers in the fields of space policy and law as well as telecommunications policy. He sits on editorial boards of various international journals in the field of space policy and law (as Space Policy and ZLW).

He holds a doctorate degree in political science and lectures international relations at Tübingen University, Germany as an Honorary Professor.



Space Platform



Pascal Legai



Pascal Legai, has been an intelligence officer in the French Air Force since 1988. He acquired experience mainly in the fields of geography, imagery, international relations, Space and Security issues. He had been appointed as a geographer in the French Air Force staff in Paris for five years (1994-1999).

He was also the Head of the French Imagery Intelligence Centre (2004-2006), Human Resources adviser of the French Air Force (2006-2008) and the Commanding Officer of the French Air Force Base in Grenoble (2008-2010). He has extensive international experience in geospatial and intelligence domains.

He has a PhD in International Relations, a law degree, several master degrees in Imagery Processing, in History, in British Civilization, in Mathematics and an Engineer Diploma in the field of geographic sciences.

After four years as Deputy Director, Pascal Legai was elected by the Member States as the Director of the EU Satellite Centre, taking up his duties on 1 January 2015.



Space Platform



Frederic Adragna



Frédéric ADRAGNA joined the French Space Agency (CNES) in 1988 within the « Image Quality and Processing » Division, where he was in charge of radar imagery processing. Then he worked on the SAR interferometric technique and on radar systems design. He was Head of the « Radar Systems » Department from 1996 to 2002. Then, he has successively been involved in the CNES/ASI cooperation on Pléiades/CosmoSkymed program and Project Manager of MyOcean Project (now known as the Copernicus Marine and Environmental Monitoring Service). He is now Senior Manager of the « Applications & Downstream Services Development » Unit.



Space Platform



Nico van Putten



Presentation title: "NSO and Space Big Data"

Nico van Putten currently is deputy director of the Netherlands Space Office (NSO).

Previously, he worked for many years at the Dutch Ministry of Economic Affairs in different positions, amongst which Head of Transport Industry Division (in the fields of aerospace, car-industry and ship-building) and Deputy Commissioner Military Production.

Afterwards he became Chief Financial Officer at the space engineering company Bradford Engineering in the Netherlands.

In 2007 he joined the Dutch space agency that later became NSO.

At NSO he is responsible for all Dutch activities within the ESA Program Boards. He is delegate to ESA Industrial Policy Committee and the ESA Council.

He is also responsible for space technology developments in the Netherlands including Commercial Space and Technology Transfer (including the ESA Business Incubator Centre in Noordwijk).

Furthermore, mr. van Putten is responsible for national space projects like OMI (Ozone Monitoring Instrument) on the US Aura-satellite, SCIAMACHY on ESA's ENVISAT and the newest Dutch space instrument TROPOMI (on Copernicus' Sentinel-5P satellite).



Space Platform



Gilles Ollier



Gilles Ollier is the Head of Sector on Earth Observation at the European Commission's Directorate-General for Research and Innovation in Brussels, Belgium. He contributes to implementing research activities in this domain and also acts as the European Commission's contact point for the international GEO (Group on Earth Observation) initiative. In this context he deals with big data issues and the computing infrastructure necessary to handle and process Earth observation data. A geologist by profession, Dr Ollier first joined the European Commission in 1993, where he devoted much of his career to the Environment Program.

Prior to this he worked for 10 years as a marine geoscientist at the French Research Institute for Exploitation of the Sea (IFREMER). He was notably involved in the International Ocean Drilling Program (IODP), an international marine research collaboration that explores Earth's history and dynamics using ocean-going research platforms to recover data recorded in seafloor sediments and rocks and to monitor sub-seafloor environments. Dr Ollier contributed to the IODP during a sabbatical year at the Lamont-Doherty Earth Observatory of Columbia University, USA.



Space Platform



Jean-Jacques TORTORA



Jean-Jacques Tortora currently serves as the Secretary General of ASD-Eurospace, which is the trade association of the European Space Industry.

From 2004 to mid 2007, he was head of the French Space Agency (CNES) office in North America and the Attaché for Space and Aeronautics at the Embassy of France in Washington, D.C.

Previously he was Deputy Director for Strategy and Programs, responsible for the Industrial Strategy of CNES, the French Space Agency.

Prior to that position, he was France's representative in the ESA Industrial Policy Committee and Joint Communication Board.

From 1998 to 2000, Mr. Tortora was adviser to the French Ministry of Research for Industrial Policy Funds management, aiming at industry competitiveness support and new space applications and services development and promotion.

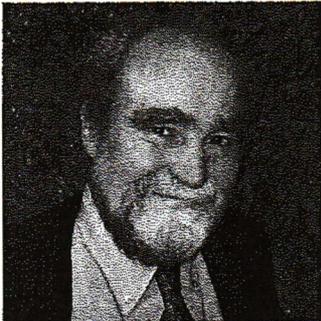
From 1996 to 1998, he was appointed by Arianespace in Evry, France, to lead a risk mitigation and cost reduction plan covering to the end of operational life of the Ariane 4 launcher.

From 1990 to 1996, Mr. Tortora was based in Kourou, French Guiana, as Head of Arianespace Operations Quality Department. There, he led the Quality Management of the Ariane 4 launchers final integration and of the launch pad operations and maintenance. He supervised the industrialization and the implementation of the associated control plans.

Mr. Tortora started his career in 1984 at the French military procurement agency, DGA, as a naval weapons integration and test engineer, expert in signal processing and warships acoustic discretion.



Space Platform



Marc TONDRIAUX

Presentation title: "The challenge of big data in EO services for an European SME".

After 7 years as Telecom engineer in the French Research Centre, Marc joined Matra Espace in 1985, and spent then 33 years in the Space industry.

In 2001, he created and became General Director of the Spot Infoterra group, gathering within EADS Astrium the Spot Image and the Infoterra companies spread over 5 European countries. He ensured in particular the responsibility of the Spot 6 and 7 investment case for EADS.

In 2011, he became Strategic Business Development Director at EADS Astrium and created the Astrium Consulting Group.

In 2014 he left EADS (now Airbus) for founding a new startup company, TerraNIS, specialized in Earth Observation services for Agriculture, Viticulture and Environment. Marc is Chairman of this SME, which gathers now 20 people in France and Chile.

He is member of the EARSC Board of Directors and President of the Eugenius association, created 2 years ago with 10 European SMEs for proposing EO based services for land management to regional end users.

Marc is a Telecom Engineer graduated from Ecole Nationale Supérieure des Télécoms (Paris, 1977), and from HEC/CPA Executive MBA.



Space Platform



Massimo Claudio Comparini

Chief Executive Officer

e-GEOS

Massimo Claudio Comparini has a Master Degree in Electrical Engineering, Remote Sensing and Radar Systems, University of Rome “La Sapienza”, and a Degree in Strategy at the Graduate School of Business, Stanford University, CA.

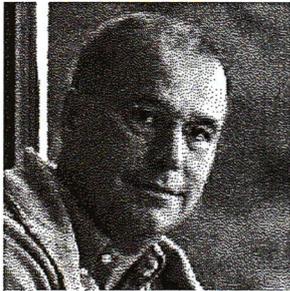
He began his career in the space industry in 1983 at Selenia Spazio reaching the role of Chief Technology Officer. In Thales Alenia Space, he took up the role of Deputy Chief Technical Officer, CTO and VP for R&D, Technology, Product Policy and IPR. In 2013 he was appointed Chief Technical Officer at Telespazio. He is also the Chairman of Space Innovation in the Italian Technology Platform SPIN IT. In 2016, he has been appointed as CEO of e-GEOS.



Space Platform



Paul Counet



Presentation title: "Big Data @ EUMETSAT"

Paul Counet is the Head of Strategy, Communication and International Relations at EUMETSAT and the Head of Cabinet of the Director-General. He has been with EUMETSAT for the last 20 years, with a short break of 2 years in the Space Policy Unit of the European Commission, between 2004 and 2006. Before that time, Paul was running his company, based in Brussels and involved in applications of remote-sensing data for the monitoring of the agriculture and environment, in relations with EU-funded projects.

In EUMETSAT, Paul is steering EUMETSAT's crucial relations with Member States, international partners and agencies and ensuring that EUMETSAT's communications effort, internally and to the outside world, is aligned with the organisation's strategy. From international cooperation arrangements, conferences and high-level meetings through to production of publications, news stories and corporate branding, all of these strands are crucial in the promotion of EUMETSAT's identity and supporting the achievement of the organisation's aims.



Space Platform



Volker Liebig



Presentation title: "Big Data from Space – Airbus New Digital Services"

Prof. Dr. Volker Liebig is geophysicist and graduated from the University of Munich. Since May 2017 he is Senior Advisor for Digital Services at Airbus CIS.

From 2004 until 2016 he was the Director of ESA's Earth Observation Programmes and the Head of the Italian ESA centre, ESRIN. Under his leadership the Copernicus space infrastructure was built.

He began his professional career in polar research and took part in the 1984 German Antarctic Expedition. In 1988 he moved to industry. Six years later he joined the German Space Agency where he was responsible as Programme Director for the German Space Programme before he started with ESA.

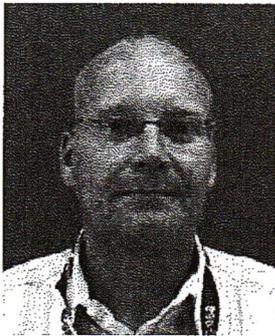
He holds an honorary professorship from the University of Stuttgart and lectures at the Institute for Space Systems.



Space Platform



Nicolaus Hanowski



Presentation title: "Data to the User - User to the Data"

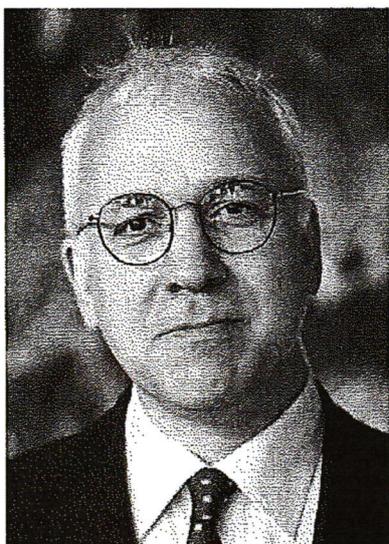
Nicolaus Hanowski has a Ph.D. in Earth and Planetary Sciences and is currently the Head of Mission Management and Ground Segments Department in the ESA Directorate for Earth Observation. He has also gained substantial experience in satellite flight operations as well as in the space science domain while working at DLR GSOC and in the ESA Science Directorate. In his current position he is responsible for all Earth observation satellites operated through the ESA Earth Observation directorate, which includes the ESA Earth Explorers and the Copernicus Sentinel satellites. In addition, he manages the corresponding ground segments and, in particular, the data access and dissemination for these missions. Nicolaus Hanowski is also in charge of coordinating the so-called Copernicus Long-Term Scenario (2021-2027) within ESA and in close cooperation with the European Commission and EUMETSAT.



Space Platform



Jan Wouters



Jan Wouters is Full Professor of International Law and International Organizations, Jean Monnet Chair ad personam EU and Global Governance, and founding Director of the Institute for International Law and of the Leuven Centre for Global Governance Studies, an interdisciplinary research centre with the status of both a Jean Monnet and KU Leuven Centre of Excellence, at KU Leuven. He is also President of KU Leuven's Council for International Policy.

He studied law and philosophy at Antwerp University, obtained an LL.M. at Yale University and was Visiting Researcher at Harvard University. As Visiting Professor at Sciences Po (Paris), Luiss University (Rome) and the College of Europe (Bruges) he teaches EU external relations law. As Adjunct Professor at Columbia University he teaches comparative EU-US perspectives on international human rights law. He is a Member of the Royal Academy of Belgium for Sciences and Arts and practises law as Of Counsel at Linklaters, Brussels. He is Editor of the International Encyclopedia of Intergovernmental Organizations, Deputy Director of the Revue Belge de Droit International, and an editorial board member in ten other international journals.

Jan Wouters

He has published widely on international and EU law, international organizations, global governance and financial law, including 65 books, 130 journal articles and 200 chapters in international books. His most recent books include *Informal International Lawmaking* (2012), *Private Standards and Global Governance* (2012), *China, the European Union and Global Governance* (2012), *The EU's Role in Global Governance* (2013), *National Human Rights Institutions in Europe* (2013), *The Law of EU External Relations* (2nd ed. 2015), *China, the EU and the Developing World* (2015), *Global Governance of Labour Rights* (2015), *Global Governance Through Trade* (2015), *The Contribution of International and Supranational Courts to the Rule of Law* (2015), *Global Governance and Democracy* (2015), *Armed Conflicts and the Law* (2016), *Judicial Decisions on the Law of International Organizations* (2016), *Internationaal Recht in Kort Bestek* (2nd ed. 2017), *Edward Elgar Research Handbook on EU Energy Law and Policy* (2017), *Commercial Uses of Space and Space Tourism* (2017), *Commons and a New Global Governance* (2018) and *EU Human Rights and Democratization Policies: Achievements and Challenges* (2018).

Apart from his participation in international scientific networks, he advises various international organizations and governments, trains international officials and is often asked to comment international events in the media. He was coordinator of a large-scale FP7 Programme FRAME, "Fostering Human Rights Among European (External and Internal) Policies" (2013-2017) and is currently coordinator of a large Horizon 2020 Project RECONNECT ("Reconnecting Europe with its Citizens through Democracy and Rule of Law", 2018-2022).

RESEARCH

Professor Wouters' current research agenda includes 1) the relationship between global multilateral organizations, such as the United Nations and the World Trade Organization, and the European Union; 2) accountability, legitimacy and reform of international organizations, including international courts; 3) multilevel regulatory interactions between global, European and national/subnational rules and standards, including private standards; 4) the contribution of the European Union to democracy, human rights and the rule of law.



Space Platform



Maria Cristina Falvella



Presentation title: "Space Data Policy: criticalities and new perspective"

Maria Cristina Falvella is an astrophysicist. Since 1991 she has worked for the Italian Space Agency and since 2000 she has been the Scientific Secretary of the International School of Astrophysics "Daniel Chalonge". Maria Cristina has a 20 years' experience in space science dealing with both the issues related to activities in space including scientific, engineering and economic aspects and the international relations between Italian Space Agency and other institution like ESA, NASA, Roscosmos and JAXA.

She collaborates as teacher with University of Rome Sapienza lecturing on space science and for many years, she has been visiting professor at Paris Astronomical Observatory.

Maria Cristina Falvella works as permanent senior director at Italian Space Agency and is presently the Head of Strategies and Industrial Policy.



Space Platform



Gunter Schreier



Presentation title: "Demand and supply of Big Earth Observation data – Some observations"

Gunter Schreier is deputy director of the German Remote Sensing Data Center (DFD) at the German Aerospace Center (DLR). He is coordinator for projects especially in the context of the European earth observation system Copernicus and earth observation projects with international partners and therein focussing on payload data management and big data systems. He has served at DLR in several functions since 1985, among others as team leader for establishing the SAR geocoding functionalities of the ESA ERS-1/2 „Processing and Archiving Center“, also applied for SRTM and further developed for TerraSAR-X. In Copernicus he is currently involved in projects on big data platforms on the national (CODE-DE) and European (DIAS) scale. He also worked as national expert at the Joint Research Center of the European Commission, in Ispra, Italy. In 2000-2003 he was founding Vice President Geomatics of Definiens, Munich (eCognition; now part of Trimble). Currently, he is Chairman of the International Astronautical Federation (IAF) Earth Observation Committee, and Chairman of the International Policy Advisory Group (IPAC) of ISPRS.



Space Platform



Daniel Quintart



Presentation title: "Copernicus big data friendly policy"

Daniel Quintart is a legal expert with the European Commission working in the fields of IPR and information technology. He joined the Copernicus programme in 2011 to draft the Copernicus data and information policy Regulation. He is currently focusing his work on the big data challenges and solutions for Copernicus. He is currently working closely with ESA and EUMETSAT on the Copernicus DIAS initiatives (Data and Information Access Services).



Congreso de los Diputados

ANEXO 4:

**RESOLUCIÓN FINAL DE LA 20ª CONFERENCIA INTERPARLAMENTARIA EUROPEA DEL
ESPACIO, EN IDIOMA INGLÉS.**

XX EISC Resolution

The European Interparliamentary Space Conference (EISC):

RECOGNISES that space is a key area for European leadership, progress and identity;

CONSIDERS that the space sector is changing towards an increased variety of public and private space activities at national, intergovernmental and European level;

RECOGNISES the need of Member States and European actors to cooperate in order to work efficiently towards ensuring a sustainable use of space;

BELIEVES that Europe needs to be proactive in order to remain competitive in the constant developments and changes of the space sector, by building and maintaining competencies through strong frameworks of cooperation;

TAKES INTO CONSIDERATION that space applications can provide increasing benefits for societies and solutions to problems on Earth;

BELIEVES that Member States through the participation in EISC can significantly contribute and support the process and success of the European space endeavour;

The 20th European Interparliamentary Space Conference has agreed on:

A. Big Data

APPRECIATES ESA's Digital Agenda for Space;

CONSIDERS the role of Big Data in specific policy areas such as monitoring climate change, and (secure) communications among others;

CONSIDERS the various issues for the Big Data value chain such as innovative algorithms, computation needs, deep learning and artificial intelligence among others;

CONSIDERS the various legal issues related to regulation of Big Data from space activities, and the need for free and open data policies;

ENCOURAGES the establishment of standardised interfaces for data exchange and between different IT solutions, in order to avoid data lock-in situations;

B. Space Legislation and Strategy

IDENTIFIES the need to develop coherent national space laws in Europe coordinated by Member States;

CALLS UPON national parliaments to support the adoption, amendments and/or clarification of national space legislation to incorporate principles of international space law and to provide a secure framework for the development of private space activities;

EMPHASISES the need to address current deficiencies in the existing legal framework for space, as private enterprise necessitates legal certainty and a clear and lean legal framework without additional bureaucratic burden;

CALLS upon Member States to take into account the needs of public and private space actors in the development of their space strategy;

C. Maintain and Further Strengthen European Leadership

ENCOURAGES the space industry to adapt to Industry 4.0 and Space 4.0;

CONSIDERS the potential of a European approach to innovation in space and through space technology and applications;

CALLS UPON the Member States to continue to use space for the benefit of life on Earth and to spread these benefits in a coordinated and sustainable manner;

CALLS UPON all actors involved in the space sector to mitigate and remediate space debris;

HIGHLIGHTS the new opportunities for entrepreneurship in various sectors in space or on Earth, supported by space tools, including developments related to the digital economy;

RECOGNISES the importance of space in safety and security, where cyber security is an underlying element for the secure operation of space systems that needs further attention for future activities;

CALLS UPON the Member States to develop additional and new ways of financing, in order to support entrepreneurs, SMEs and companies engaged in the space sector, as well as to foster and maintain a competitive European space sector;

IDENTIFIES the need for clear distribution of roles and mandates between space-related institutions in public and private sector in Europe towards an efficient and beneficial cooperation, avoiding duplication of efforts for the development of the European space sector;

INVITES national parliaments to actively promote cooperation in space at European and international level.