

EUROPEAN SPACE AGENCY

COUNCIL

Subscription to optional programmes at Space19+

Council meeting at ministerial level

Summary

Delegations will find attached the final tables of subscription to optional programmes as confirmed by the Participating States in accordance with the subscription method described in previous versions of this document, at the occasion of Space 19+, on 28 November 2019. This document contains also a short explanation of these tables.

The Director General will issue for the next Council meeting an updated version of each Programme Declaration including the financial contributions as appearing in the attached tables.

The financial commitments resulting from subscriptions done at Space 19+ will be governed by each applicable Programme Declaration.

Action required

Delegations are invited to take note of this document.

Explanations

The attached tables of subscription to optional programmes were confirmed by Participating States at Space 19+, in accordance with the subscription method described in previous versions of this document. The Chairperson of the Council meeting at ministerial level formally declared that all subscriptions were committed by Participating States. The Director General will issue an updated version of each Programme Declaration including the financial contributions as appearing in the attached tables. In a few cases it was not possible to include all details in the contribution tables contained in the Programme Declarations into the attached tables produced by the Digital Subscription Tool. This does not affect the validity of these details, which will subsist in the Programme Declarations that govern the commitments made through the subscriptions.

For some Programmes the amount of the subscriptions exceeded that of the financial envelope. The amounts exceeding the financial envelope are shown in the attached tables under the line “not covered” with a (-).

For some ongoing Programmes (i.e. Altius and Proba-VE) Member States were specifically invited, at Space 19+, to provide additional financial contributions, so as to complement the financial envelope. For these programmes, this document shows in distinct columns (and linked by a plus (+)) the subscriptions done prior to and those done at Space 19+. The tables included in the corresponding (Earthwatch) Programme Declaration to be issued for the next Council meeting will only show the sums of the two.

For GSTP, a separate table was established to record new subscriptions made at Space 19+. For the Programme Declaration to be issued for the next Council meeting, this subscription table, will be merged with the table documenting contributions already subscribed (see page 2 of Annex B of the GSTP Declaration ESA/IPC/CXXXIX/Dec.1 rev.32 (Final) attached to ESA/C-M(2019)25).

For programmes governed by economic conditions other than 2019 economic conditions previous versions of this document contained two subscription tables: one in the economic conditions of the programme in line with the table in the Programme Declaration, and the other in 2016 economic conditions for information. This final revision of document 100 contains only the subscription table with the economic conditions of the Programme Declaration.

Germany declared during the final subscription round on 28 November 2019 that its subscription to the Activity Area “Humans beyond LEO” of E3P aims at benefitting Small and Medium Enterprises. This statement will be duly recorded in the Minutes of the Council meeting at ministerial level.

Germany declared also during the final subscription round on 28 November 2019 that its subscription to LEAP – Ariane 6 Exploitation includes its share in the provision in relation to the implementation of the mechanism referred to (i) under paragraph I.8 of the Resolution on the Institutional Exploitation of ESA-developed Launchers and supporting Competitiveness (ESA/C/CCLXXXIX/Res.1) and (ii) Section III.i of the Programme Declaration. This statement will be reflected in the Programme Declaration to be issued for the next Council meeting.

Belgium declared during the final subscription round on 28 November 2019 that a significant amount of its subscription to GSTP – Element 1- Develop was made with a view to developing

cybersecurity capabilities at ESEC. This statement will be duly recorded in the Minutes of the Council meeting at ministerial level.

In some cases, Participating States provided a financial contribution to optional programmes (the “Recipient Programmes”) through transfers of contributions from other optional programmes (the “Transferring Programmes”). The last page of the attached document table contains a list of these transfers. Where necessary, the States participating in the Transferring Programmes and in the Recipient Programmes approved, respectively, the transfer of these contributions. To the extent that a transfer cannot be fully absorbed in the financial planning of the Transferring Programme, it will be allocated to the Recipient Programme through a revised budget for the year 2019.

This page was intentionally left blank

INDEX

SCIENCE AND EXPLORATION	6
EXPLORATION	6
<i>European Exploration Envelope Programme Second Period (E3P)</i>	<i>7</i>
SPACE SAFETY AND SECURITY	8
SPACE SAFETY	8
<i>Space Safety Programme</i>	<i>9</i>
APPLICATIONS	10
EARTH OBSERVATION	10
<i>Future EO Segment 1 (Future EO)</i>	<i>11</i>
<i>Copernicus Segment 4 (CSC-4)</i>	<i>12</i>
<i>EW - Investing in Industrial Innovation (InCubed+)</i>	<i>13</i>
<i>EW - Global Development Assistance (GDA)</i>	<i>14</i>
<i>EW - ALTIUS - Phase E</i>	<i>15</i>
<i>EW - TRUTHS</i>	<i>16</i>
<i>EW - Arctic Weather Satellite (AWS)</i>	<i>17</i>
<i>EW - Proba-VE</i>	<i>18</i>
TELECOMMUNICATION	19
<i>Programme of Advanced Research in Telecommunications Systems ARTES 4.0</i>	<i>20</i>
<i>Allocation Table for Partnership Projects (PP) Generic Programme Line</i>	<i>21</i>
<i>Allocation Table for Space for 5G (5G) Strategic Programme Line</i>	<i>22</i>
<i>Allocation Table for Safety and Security (4S) Strategic Programme Line</i>	<i>23</i>
<i>Allocation Table for Optical Communication - ScyLight Strategic Programme Line</i>	<i>24</i>
NAVIGATION	25
<i>Navigation Innovation and Support Programme (NAVISP)</i>	<i>26</i>
ENABLING AND SUPPORT	27
SPACE TRANSPORTATION	27
<i>Programme for Competitiveness Improvements: Ariane 6/Vega C/P120 C</i>	<i>28</i>
<i>Additional Activities for the Vega return to flight Programme</i>	<i>29</i>
<i>FLPP - Studies, Demonstrators and Advanced Technology Core Element</i>	<i>30</i>
<i>FLPP - Prometheus Element</i>	<i>31</i>
<i>FLPP - Themis/Reusability Element</i>	<i>32</i>
<i>SPACE RIDER - Step 2.2</i>	<i>33</i>
<i>Commercial Space Transportation Services and Support Programme (CSTS)</i>	<i>34</i>
<i>Ariane 6 and P120C Transition Programme - Step 2</i>	<i>35</i>
<i>LEAP - Ariane 5 Supplementary</i>	<i>36</i>
<i>LEAP - Ariane 6 Exploitation</i>	<i>37</i>
<i>LEAP - Vega/Vega C Transition Accompaniment</i>	<i>38</i>
TECHNOLOGY	39
<i>GSTP - Develop, Make, Fly</i>	<i>40</i>
AMOUNTS TO BE ALLOCATED	41
COMPLEMENTARY CONTRIBUTIONS TO ON-GOING PROGRAMMES	42
FUTURE CONTRIBUTIONS	44
TRANSFER OF CONTRIBUTIONS	45

EXPLORATION

Pillar: Science and Exploration

I. General information

<u>Programme</u> European Exploration Envelope Programme Second Period (E3P)		<u>Activity Area</u> Humans in LEO (incl.SciSpacE) Humans Beyond LEO Lunar Robotic Exploration Mars Robotic Exploration ExPeRT			
<u>Financial Envelope</u> M€ 1980		<u>Economic Conditions</u> 2019	<u>Acronym</u> E3P	<u>Phase / Time frame</u> Period 2 2020-2022	<u>Threshold</u> Mars: M€ 592

II. Extract from Declaration:

ESA/PB-HME/LXII/Dec.1, rev.4 (Final) attached to ESA/C-M(2019)11

Participating States	European Exploration Envelope Programme Second Period (E3P) M€ %	Humans in LEO (incl.SciSpacE) M€	Humans Beyond LEO M€	Lunar Robotic Exploration M€	Mars Robotic Exploration M€	ExPeRT M€
Austria	2.00 0.10				1.00	
Belgium	74.73 3.77	34.64	22.31	6.08	10.72	0.98
Czech Republic	1.30 0.07					
Denmark	13.00 0.66				2.00	
France	345.00 17.42			25.00	129.00	
Germany	552.72 27.92	416.00	25.00	55.00	36.72	20.00
Greece	0.30 0.02	0.30				
Hungary	14.00 0.71	6.00	4.00		2.00	2.00
Ireland	0.50 0.03	0.50				
Italy	503.50 25.43	130.00	98.00	7.50	202.00	6.00
Luxembourg	11.00 0.56			9.00		2.00
Netherlands	14.00 0.71	14.00				
Norway	30.10 1.52				10.00	2.50
Poland	6.00 0.30			1.00	1.20	2.30
Portugal	1.50 0.08					
Spain	80.00 4.04	7.00	22.00	3.00	43.00	5.00
Sweden	15.00 0.76	10.00			5.00	
Switzerland	45.00 2.27				10.00	
United Kingdom	218.30 11.03	15.00	18.00	14.00	123.00	
Slovenia	2.00 0.10	1.00				
Canada	23.30 1.18	0.60		2.00	20.10	0.60
Covered	1,953.25 98.65					
Not Covered	26.75 1.35					
Envelope	1,980.00 100.00					

SPACE SAFETY

Pillar: Safety and Security

I. General information

<u>Programme</u> Space Safety Programme		<u>Activity Area</u> Core Activities Cornerstone Mission 1 Lagrange Cornerstone Mission 2 Hera Cornerstone Mission 3 ADRIOS Cornerstone Mission 4 CREAM		
<u>Financial Envelope</u> M€ 600	<u>Economic Conditions</u> 2019	<u>Acronym</u> S2P	<u>Phase / Time frame</u> Period -1 2020-2022	<u>Threshold</u> Lagrange M€ 85 Hera M€ 120 ADRIOS M€ 47.8

II. Extract from Declaration:

ESA/PB-SSA/XLVII/Dec.1 (Final) attached to ESA/C-M(2019)12, rev.1

Participating States	Space Safety Programme M€	Core Activities M€	Cornerstone Mission 1 Lagrange M€	Cornerstone Mission 2 Hera M€	Cornerstone Mission 3 ADRIOS M€	Cornerstone Mission 4 CREAM M€
Austria	3.70	2.40	0.90	0.40		
Belgium	41.86	15.17	3.94	22.75		
Czech Republic	13.80	0.70	2.10	10.00	0.50	
Denmark	3.00					
Finland	6.80	1.80	3.10	1.90		
France	11.00	6.00		5.00		
Germany	83.70	12.00		60.00	11.70	
Greece	1.00	1.00				
Hungary	8.00	5.50	2.00	0.50		
Italy	46.00	16.00		30.00		
Luxembourg	14.00	2.00		12.00		
Netherlands	2.00	1.00		1.00		
Norway	5.40	3.00	2.40			
Poland	9.90	4.00			5.90	
Portugal	13.30	0.50	2.00	2.80	7.50	0.50
Spain	12.60	3.60		9.00		
Sweden	4.40	0.30			4.10	
Switzerland	36.00	2.00	5.00	3.00	24.00	0.50
United Kingdom	95.50	12.50	70.00		12.00	1.00
Covered	411.96					
Not Covered	188.04					
Envelope	600.00	135.00	230.00	140.00	75.00	20.00

EARTH OBSERVATION

Pillar: Applications

I. General information

<u>Programme</u>	<u>Element</u>			
Future Earth Observation Programme		Future EO Segment 1 (Future EO)		
<u>Financial Envelope</u>	<u>Economic Conditions</u>	<u>Acronym</u>	<u>Phase / Time frame</u>	
M€ 650	2019	Future EO	Period -1 2020-2022	

II. Extract from Declaration:

ESA/PB-EO/LXXIV/Dec.1, rev.21 (Final) attached to ESA/C-M(2019)13

Participating States	Future EO Segment 1 (Future EO) M€
Austria	8.50
Belgium	18.71
Czech Republic	6.80
Denmark	7.50
Finland	8.00
France	50.00
Germany	170.00
Greece	3.00
Hungary	7.00
Ireland	5.00
Italy	105.00
Luxembourg	7.00
Netherlands	18.50
Norway	8.50
Poland	4.70
Portugal	4.00
Spain	15.00
Sweden	6.00
Switzerland	26.00
United Kingdom	52.00
Slovenia	1.00
Canada	12.40
Covered	544.61
Not Covered	105.39
Envelope	650.00

Pillar: Applications**I. General information**

<u>Programme</u>	<u>Element</u>			
Copernicus Segment 4 (CSC-4)				
<u>Financial Envelope</u>	<u>Economic Conditions</u>	<u>Acronym</u>	<u>Phase / Time frame</u>	<u>Threshold</u>
M€ 1402	2019	CSC-4	Phase 1 2020-2028	80%

II. Extract from Declaration:

ESA/PB-EO/CXI/Dec.1, rev.11 (Final) attached to ESA/C-M(2019)14

Participating States	Copernicus Segment 4 (CSC-4) M€
Austria	16.00
Belgium	48.50
Czech Republic	11.80
Denmark	6.50
Finland	15.00
France	350.00
Germany	518.74
Greece	3.00
Hungary	7.00
Ireland	1.00
Italy	370.00
Luxembourg	4.00
Netherlands	26.00
Norway	34.00
Poland	3.80
Portugal	5.00
Spain	170.00
Sweden	14.00
Switzerland	30.00
United Kingdom	170.00
Canada	3.00
Covered	1,807.34
Not Covered	-405.34
Envelope	1,402.00

Pillar: Applications

I. General information

<u>Programme</u> European Earth Watch Programme	<u>Element</u> Investing in Industrial Innovation (InCubed+)			
<u>Financial Envelope</u> M€ 150	<u>Economic Conditions</u> 2019	<u>Acronym</u> InCubed+	<u>Phase / Time frame</u> 2020-2024	<u>Threshold</u>

II. Extract from Declaration:

ESA/PB-EO/LXXXVII/Dec.1, rev.24 (Final) attached to ESA/C-M(2019)15

Participating States	Investing in Industrial Innovation (InCubed+) M€
Austria	2.50
Belgium	5.46
Czech Republic	2.30
Estonia	0.90
Finland	3.60
Germany	15.00
Greece	2.00
Ireland	1.85
Italy	15.00
Luxembourg	2.00
Netherlands	4.00
Norway	1.00
Portugal	4.00
Covered	59.61
Not Covered	90.39
Envelope	150.00

Pillar: Applications**I. General information**

<u>Programme</u> European Earth Watch Programme	<u>Element</u> Global Development Assistance (GDA)			
<u>Financial Envelope</u> M€ 50	<u>Economic Conditions</u> 2019	<u>Acronym</u> GDA	<u>Phase / Time frame</u> 2020-2024	<u>Threshold</u>

II. Extract from Declaration:

ESA/PB-EO/LXXXVII/Dec.1, rev.24 (Final) attached to ESA/C-M(2019)15

Participating States	Global Development Assistance (GDA) M€
Austria	1.50
Belgium	1.36
Czech Republic	1.10
Finland	0.70
Germany	10.00
Ireland	0.50
Italy	5.00
Luxembourg	1.00
Portugal	0.50
Spain	5.00
Switzerland	0.50
United Kingdom	2.00
Covered	29.16
Not Covered	20.84
Envelope	50.00

Pillar: Applications

I. General information

<u>Programme</u> European Earth Watch Programme	<u>Element</u> ALTIUS - Phase E			
<u>Financial Envelope</u> M€ 152	<u>Economic Conditions</u> 2016	<u>Acronym</u>	<u>Phase / Time frame</u> 2020-2026	<u>Threshold</u>

II. Extract from Declaration:

ESA/PB-EO/LXXXVII/Dec.1, rev.24 (Final) attached to ESA/C-M(2019)15

Participating States	ALTIUS - Phase E M€
Belgium	91.72 + 50.33
Luxembourg	2.00 + 1.10
Romania	1.05 +
Canada	3.20 + 1.80
Covered	97.97 + 53.23
Not Covered	54.03 - 53.23
Envelope	152.00

Pillar: Applications**I. General information**

<u>Programme</u> European Earth Watch Programme	<u>Element</u> TRUTHS			
<u>Financial Envelope</u> M€ 32	<u>Economic Conditions</u> 2019	<u>Acronym</u>	<u>Phase / Time frame</u> Phase 1 2020-2022	<u>Threshold</u>

II. Extract from Declaration:

ESA/PB-EO/LXXXVII/Dec.1, rev.24 (Final) attached to ESA/C-M(2019)15

Participating States	TRUTHS M€
Czech Republic	0.50
Greece	2.00
Switzerland	1.80
United Kingdom	27.70
Covered	32.00
Not Covered	0
Envelope	32.00

Pillar: Applications

I. General information

<u>Programme</u> European Earth Watch Programme	<u>Element</u> Arctic Weather Satellite			
<u>Financial Envelope</u> M€ 42	<u>Economic Conditions</u> 2019	<u>Acronym</u> AWS	<u>Phase / Time frame</u> 2020-2025	<u>Threshold</u>

II. Extract from Declaration:

ESA/PB-EO/LXXXVII/Dec.1, rev.24 (Final) attached to ESA/C-M(2019)15

Participating States	Arctic Weather Satellite M€
Austria	1.00
Denmark	1.00
Finland	2.50
France	7.50
Germany	7.50
Luxembourg	1.00
Norway	1.50
Portugal	1.50
Spain	0.40
Sweden	15.00
Switzerland	2.50
Canada	0.40
Covered	41.80
Not Covered	0.20
Envelope	42.00

Pillar: Applications**I. General information**

<u>Programme</u> European Earth Watch Programme	<u>Element</u> Proba-V Exploitation			
<u>Financial Envelope</u> M€ 43.4	<u>Economic Conditions</u> 2012	<u>Acronym</u> Proba-VE	<u>Phase / Time frame</u> 2020-2024	<u>Threshold</u>

II. Extract from Declaration:

ESA/PB-EO/LXXXVII/Dec.1, rev.24 (Final) attached to ESA/C-M(2019)15

Participating States	Proba-V Exploitation M€
Belgium	31.10 + 11.71
Luxembourg	0.20 +
Covered	31.30 + 11.71
Not Covered	12.10 - 11.71
Envelope	43.40

TELECOMMUNICATION

Pillar: Applications**I. General information**

<u>Programme</u>	<u>Programme Line</u>
Programme of Advanced Research in Telecommunications Systems ARTES 4.0	Future Preparation (FP) Core Competitiveness (CC) Partnership Projects (PP) Business Applications - Space Solutions (BASS) Space for 5G (5G) Space Systems for Safety and Security (4S) Optical Communication - ScyLight
<u>Financial Envelope</u>	<u>Economic Conditions</u>
Future Preparation (FP): 35M€ Core Competitiveness (CC): 200M€ Partnership Projects (PP): 220M€ Space Solutions (BASS): 180M€ Space for 5G (5G): 300M€ Space Systems for Safety and Security (4S): 300M€ ScyLight: 355M€	2019 2019 2019 2019 2019 2019 2019
<u>Acronym</u>	<u>Phase / Time frame</u>
FP CC PP BASS 5G 4S	2020-2023 2020-2023 2020-2025 2020-2024 2020-2025 2020-2025 2020-2025
<u>Threshold</u>	

II. Extract from Declaration:

ESA/JCB/CCXXXIX/Dec.1 (Final) attached to ESA/C-M(2019)16, rev.1

Programme of Advanced Research in Telecommunications Systems ARTES 4.0								
Participating States	Future Preparation (FP) M€	Core Competitiveness (CC) M€	Partnership Projects (PP) M€	Business Applications - Space Solutions (BASS) M€	Space for 5G (5G) M€	Space Systems for Safety and Security (4S) M€	Optical Communication - ScyLight M€	Total M€
Austria	0.20	17.00	1.00	1.00	1.20	3.60	2.00	26.00
Belgium	0.95	14.72		7.85		8.05	2.41	33.98
Czech Republic	0.10	3.40	1.00	5.00	2.00	6.59	2.00	20.09
Denmark	0.25	3.25	0.50	0.50	0.50	0.50	0.50	6.00
Estonia	0.10			0.90				1.00
Finland	0.12	2.68		2.40	3.20	1.05		9.45
France	2.00	174.00	36.00	15.00		3.00		230.00
Germany	4.30	67.00	65.00	37.26	13.00	60.00	80.00	326.56
Greece	1.00	1.00	1.00	1.00	3.00	2.00	7.00	16.00
Hungary	1.00	4.00		3.00	2.00	3.00	3.00	16.00
Ireland	0.20	3.50	1.00	3.00	1.00	1.00	1.00	10.70
Italy	3.00	30.00	1.00	30.00	11.00	50.00	13.00	138.00
Luxembourg	0.50	9.50	0.50	9.00	22.00	23.00	2.00	66.50
Netherlands	0.75	8.25		10.00		1.00	14.00	34.00
Norway	0.60	13.00		4.00	1.00	3.00	2.50	24.10
Poland	0.30	1.00		2.00		1.00	3.00	7.30
Portugal	0.20	2.00		5.00	1.90	1.90	1.50	12.50
Spain	1.20		3.00	1.50	0.60	0.60	0.60	7.50
Sweden	0.20	12.00		1.30	3.00		2.50	19.00
Switzerland	1.00	11.50		15.00	3.00	10.00	8.00	48.50
United Kingdom	5.00	117.00	24.00	61.00	50.00	24.00	15.00	296.00
Canada	0.30	6.50			1.80		2.50	11.10
Covered	23.27	501.30	134.00	215.71	120.20	203.29	162.51	1,360.28
Not Covered	11.73	-301.30	86.00	-35.71	179.80	96.71	192.49	229.72
Envelope	35.00	200.00	220.00	180.00	300.00	300.00	355.00	1,590.00

Pillar: Applications

I. General information

<u>Programme</u> Programme of Advanced Research in Telecommunications Systems ARTES 4.0		<u>Programme Line/Project</u> Partnership Projects (PP) - Preparatory Activities - Novacom I - Future Projects (PP)		
Financial Envelope M€ 220	Economic Conditions 2019	Acronym PP	Phase / Time frame 2020-2025	Threshold

II. Extract from Declaration:

ESA/JCB/CCXXXIX/Dec.1 (Final) attached to ESA/C-M(2019)16, rev.1

Allocation Table for Partnership Projects (PP) Generic Programme Line				
Participating States	Preparatory Activities M€	Novacom I M€	Future Projects (PP) M€	Total M€
Austria				1.00
Czech Republic		1.00		1.00
Denmark			0.50	0.50
France		36.00		36.00
Germany		10.00		65.00
Greece				1.00
Ireland			1.00	1.00
Italy			1.00	1.00
Luxembourg				0.50
Spain				3.00
United Kingdom				24.00
Covered				134.00
Not Covered				86.00
Envelope				220.00

Pillar: Applications**I. General information**

<u>Programme</u>	<u>Programme Line/Project</u>		
Programme of Advanced Research in Telecommunications Systems ARTES 4.0	Space for 5G (5G) - Sunrise Phase 2 - Other Activities (5G)		
<u>Financial Envelope</u>	<u>Economic Conditions</u>	<u>Acronym</u>	<u>Phase / Time frame</u>
M€ 300	2019	5G	2020-2025

II. Extract from Declaration:

ESA/JCB/CCXXXIX/Dec.1 (Final) attached to ESA/C-M(2019)16, rev.1

Allocation Table for Space for 5G (5G) Strategic Programme Line			
Participating States	Sunrise Phase 2 M€	Other Activities (5G) M€	Total M€
Austria		0.20	1.20
Czech Republic	2.00		2.00
Denmark		0.50	0.50
Finland			3.20
Germany			13.00
Greece			3.00
Hungary			2.00
Ireland		1.00	1.00
Italy	1.00	10.00	11.00
Luxembourg			22.00
Norway			1.00
Portugal			1.90
Spain			0.60
Sweden		3.00	3.00
Switzerland	1.00	2.00	3.00
United Kingdom	20.00		50.00
Canada	0.30	1.50	1.80
Covered			120.20
Not Covered			179.80
Envelope			300.00

Pillar: Applications

I. General information

<u>Programme</u> Programme of Advanced Research in Telecommunications Systems ARTES 4.0		<u>Programme Line/Project</u> Space Systems for Safety and Security (4S) - Iris Satcom Global Solution - SAGA - Other Activities (4S)		
Financial Envelope M€ 300	Economic Conditions 2019	Acronym 4S	Phase / Time frame 2020-2025	Threshold

II. Extract from Declaration:

ESA/JCB/CCXXXIX/Dec.1 (Final) attached to ESA/C-M(2019)16, rev.1

Allocation Table for Safety and Security (4S) Strategic Programme Line				
Participating States	Iris Satcom Global Solution M€	SAGA M€	Other Activities (4S) M€	Total M€
Austria	2.40	1.20		3.60
Belgium				8.05
Czech Republic	4.80	1.00		6.59
Denmark			0.50	0.50
Finland				1.05
France	3.00			3.00
Germany		30.00		60.00
Greece				2.00
Hungary				3.00
Ireland			1.00	1.00
Italy	10.00	30.00	10.00	50.00
Luxembourg		3.00		23.00
Netherlands		1.00		1.00
Norway				3.00
Poland		1.00		1.00
Portugal				1.90
Spain				0.60
Switzerland	0.50	7.00	2.50	10.00
United Kingdom	20.00	1.00		24.00
Covered				203.29
Not Covered				96.71
Envelope				300.00

Pillar: Applications**I. General information**

<u>Programme</u>	<u>Programme Line/Project</u>		
Programme of Advanced Research in Telecommunications Systems ARTES 4.0	Optical Communication - ScyLight - HydRon - Other Activities (ScyLight)		
<u>Financial Envelope</u>	<u>Economic Conditions</u>	<u>Acronym</u>	<u>Phase / Time frame</u>
M€ 355	2019		2020-2025

II. Extract from Declaration:

ESA/JCB/CCXXXIX/Dec.1 (Final) attached to ESA/C-M(2019)16, rev.1

Allocation Table for Optical Communication - ScyLight Strategic Programme Line			
Participating States	HydRon M€	Other Activities (ScyLight) M€	Total M€
Austria		2.00	2.00
Belgium			2.41
Czech Republic	2.00		2.00
Denmark		0.50	0.50
Germany	15.00		80.00
Greece			7.00
Hungary			3.00
Ireland		1.00	1.00
Italy	10.00	3.00	13.00
Luxembourg			2.00
Netherlands			14.00
Norway			2.50
Poland	2.00		3.00
Portugal			1.50
Spain			0.60
Sweden		2.50	2.50
Switzerland	6.00	2.00	8.00
United Kingdom	1.00		15.00
Canada	0.50	2.00	2.50
Covered			162.51
Not Covered			192.49
Envelope			355.00

NAVIGATION

Pillar: Applications

I. General information

<u>Programme</u>		<u>Element</u>		
Navigation Innovation and Support Programme (NAVISP)		NAVISP - Phase 2 Element 1 NAVISP - Phase 2 Element 2 NAVISP - Phase 2 Element 3		
Financial Envelope	Economic Conditions	Acronym	Phase / Time frame	Threshold
Phase 2 Element 1: 30M€	2019	NAVISP	2 2020-2022	
Phase 2 Element 2: 60M€	2019	NAVISP	2 2020-2022	
Phase 2 Element 3: 30M€	2019	NAVISP	2 2020-2022	

II. Extract from Declaration:

ESA/PB-NAV/XCIX/Dec.1, rev.6 (Final) attached to ESA/C-M(2019)17

Participating States	Navigation Innovation and Support Programme (NAVISP)			
	NAVISP - Phase 2 Element 1 M€	NAVISP - Phase 2 Element 2 M€	NAVISP - Phase 2 Element 3 M€	Total M€
Austria		1.00		1.00
Belgium	0.89	2.50	2.50	5.89
Czech Republic		2.00	1.00	3.00
Denmark	0.25	0.25	0.50	1.00
Finland	0.40	0.80		1.20
France	1.00	2.00		3.00
Greece	0.90			0.90
Hungary	1.00	1.00	1.00	3.00
Ireland		0.50		0.50
Italy	3.00	9.00	3.00	15.00
Netherlands	0.50	0.50		1.00
Norway	1.00	2.50	1.00	4.50
Poland		0.30		0.30
Portugal		1.50		1.50
Spain		5.00		5.00
Sweden	0.40			0.40
Switzerland	3.00	2.00		5.00
United Kingdom	6.00	9.00	5.00	20.00
Covered	18.34	39.85	14.00	72.19
Not Covered	11.66	20.15	16.00	47.81
Envelope	30.00	60.00	30.00	120.00

SPACE TRANSPORTATION

Pillar: Enabling and Support

I. General information

<u>Programme</u>	<u>Element</u>		
Programme for Competitiveness Improvements: Ariane 6/Vega C/P120 C	Ariane 6 CI Ariane 6 Future Upper Stage Preparation Vega C CI Vega Evolution Preparation		
<u>Financial Envelope</u>	<u>Acronym</u>	<u>Phase / Time frame</u>	<u>Threshold</u>
Ariane 6 CI: 220M€ Ariane 6 Future Upper Stage Preparation: 47M€ Vega C CI: 93M€ Vega Evolution Preparation: 97M€	CIP	2020-2023 2020-2023 2020-2023 2020-2023	
2019 2019 2019 2019			

II. Extract from Declaration:

ESA/PB-LAU/CCCVIII/Dec.1 (Final) attached to ESA/C-M(2019)18, rev.1

ESA/C-M/RoomDoc(2019)1

Programme for Competitiveness Improvements: Ariane 6/Vega C/P120 C				
Participating States	Ariane 6 Competitiveness Improvements (CI) M€	Ariane 6 Future Upper Stage Preparation M€	Vega C Competitiveness Improvements (CI) M€	Vega Evolution Preparation M€
Austria	1.65	0.45	0.45	5.13
Belgium	8.81		11.78	16.63
Czech Republic	5.50		7.50	9.00
France	169.00			15.00
Germany	72.95	18.28		
Ireland			1.75	0.75
Italy			50.00	90.00
Netherlands	6.00		3.00	2.00
Norway	1.00		15.30	
Romania			7.96	17.12
Spain	13.00		9.00	2.00
Sweden	0.50		1.00	1.00
Switzerland	4.00		9.00	1.00
Covered	282.41	18.73	116.74	159.63
Not Covered	-62.41	28.27	-23.74	-62.63
Envelope	220.00	47.00	93.00	97.00

Pillar: Enabling and Support

I. General information

<u>Programme</u> Small Launcher Development Programme	<u>Slice</u> Additional Activities for the Vega return to flight Programme			
<u>Financial Envelope</u> M€ 53	<u>Economic Conditions</u> 2019	<u>Acronym</u>	<u>Phase / Time frame</u> 2019 - 2020	<u>Threshold</u> 65 %

II. Extract from Declaration:

ESA/PB-LAU/CCCIX/Dec.1 (Final) attached to ESA/C-M(2019)24

Participating States	Additional Activities for the Vega return to flight Programme M€
Belgium	0.30
France	2.00
Italy	45.00
Covered	47.30
Not Covered	5.70
Envelope	53.00

Pillar: Enabling and Support

I. General information

<u>Programme</u>	<u>Element</u>			
<u>Future Launchers Preparatory Programme</u>		FLPP - Studies, Demonstrators and Advanced Technology Core Element		
<u>Financial Envelope</u>	<u>Economic Conditions</u>	<u>Acronym</u>	<u>Phase / Time frame</u>	<u>Threshold</u>
M€ 120	2019	FLPP	2020-2022	

II. Extract from Declaration:

ESA/PB-ARIANE/CCI/Dec.1, rev. 17 (Final) attached to ESA/C-M(2019)19, rev.1

Participating States	FLPP - Studies, Demonstrators and Advanced Technology Core Element M€
Austria	1.09
Belgium	8.81
Czech Republic	3.50
France	5.00
Germany	102.00
Ireland	1.75
Netherlands	5.50
Norway	5.20
Spain	4.00
Sweden	13.50
Switzerland	5.00
Covered	155.35
Not Covered	-35.35
Envelope	120.00

Pillar: Enabling and Support

I. General information

<u>Programme</u>	<u>Element</u>			
Future Launchers Preparatory Programme	FLPP - Prometheus Element			
<u>Financial Envelope</u>	<u>Economic Conditions</u>	<u>Acronym</u>	<u>Phase / Time frame</u>	<u>Threshold</u>
M€ 150	2019	FLPP	2020-2023	65%

II. Extract from Declaration:

ESA/PB-ARIANE/CCI/Dec.1, rev. 17 (Final) attached to ESA/C-M(2019)19, rev.1

Participating States	FLPP - Prometheus Element M€
Austria	0.85
Belgium	6.38
France	100.00
Germany	35.00
Italy	3.00
Netherlands	2.50
Sweden	4.50
Switzerland	1.00
Covered	153.23
Not Covered	-3.23
Envelope	150.00

Pillar: Enabling and Support

I. General information

<u>Programme</u>	<u>Element</u>			
Future Launchers Preparatory Programme	FLPP - Themis/Reusability Element			
<u>Financial Envelope</u>	<u>Economic Conditions</u>	<u>Acronym</u>	<u>Phase / Time frame</u>	<u>Threshold</u>
M€ 50	2019	FLPP	2020-2022	

II. Extract from Declaration:

ESA/PB-ARIANE/CCI/Dec.1, rev. 17 (Final) attached to ESA/C-M(2019)19, rev.1

Participating States	FLPP - Themis/Reusability Element M€
Belgium	1.96
France	25.00
Sweden	7.20
Switzerland	1.50
Covered	35.66
Not Covered	14.34
Envelope	50.00

Pillar: Enabling and Support

I. General information

<u>Programme</u>	<u>Step</u>			
Programme for Reusable In-orbit Demonstrator for Europe	SPACE RIDER - Step 2.2			
<u>Financial Envelope</u>	<u>Economic Conditions</u>	<u>Acronym</u>	<u>Phase / Time frame</u>	<u>Threshold</u>
M€ 186	2019	SPACE RIDER	2020-2022	70%

II. Extract from Declaration:

ESA/PB-LAU/CCLXVII/Dec.2, rev.3 (Final) attached to ESA/C-M(2019) 20, corr.1

Participating States	SPACE RIDER - Step 2.2 M€
Belgium	5.91
Czech Republic	4.00
France	3.00
Ireland	0.75
Italy	150.00
Norway	5.00
Portugal	1.00
Romania	12.07
Spain	5.00
Switzerland	9.00
Covered	195.73
Not Covered	-9.73
Envelope	186.00

Pillar: Enabling and Support

I. General information

<u>Programme</u>	<u>Element</u>		
Commercial Space Transportation Services and Support Programme	CSTS - Element 1 CSTS - Element 2		
<u>Financial Envelope</u>	<u>Economic Conditions</u>		
Element 1: Corresponds to 'Covered' Element 2: 5M€	2019	<u>Acronym</u>	<u>Phase / Time frame</u>
	2019	CSTS	2020-2022
		CSTS	2020-2022

II. Extract from Declaration:

ESA/PB-LAU/CCCVIII/Dec.2, rev.3 (Final) attached to ESA/C-M(2019)21

Commercial Space Transportation Services and Support Programme			
Participating States	CSTS - Element 1 M€	CSTS - Element 2 M€	Total M€
Germany	27.50		27.50
Greece		2.00	2.00
Italy	5.00		5.00
Norway	0.40	0.60	1.00
Portugal	2.00	0.50	2.50
Sweden	0.30		0.30
United Kingdom	14.35	0.65	15.00
Covered	49.55	3.75	53.30
Not Covered	0.00	1.25	1.25
Envelope	49.55	5.00	54.55

Pillar: Enabling and Support

I. General information

<u>Programme</u>	<u>Step</u>		
Ariane 6 and P120C Transition Programme	Ariane 6 and P120C Transition Programme - Step 2		
<u>Financial Envelope</u>	<u>Economic Conditions</u>	<u>Acronym</u>	<u>Phase / Time frame</u>
M€ 256	2019	A6TP	2020-2022

II. Extract from Declaration:

ESA/PB-LAU/CCC/Dec.1, rev.3 (Final) attached to ESA/C-M(2019)22, rev.1

Participating States	Ariane 6 and P120C Transition Programme - Step 2
	M€
Austria	0.69
Belgium	5.36
Czech Republic	0.35
France	164.00
Germany	60.00
Ireland	0.33
Italy	13.30
Netherlands	3.00
Norway	1.65
Spain	7.00
Sweden	2.88
Switzerland	5.00
Covered	263.56
Not Covered	-7.56
Envelope	256.00

Pillar: Enabling and Support

I. General information

<u>Programme</u> Launchers Exploitation Accompaniment Programme		<u>Envelope</u> LEAP - Ariane 5 Supplementary		
<u>Financial Envelope</u> M€ 450	<u>Economic Conditions</u> 2019	<u>Acronym</u> LEAP	<u>Phase / Time frame</u> 2020 to completion	<u>Threshold</u>

II. Extract from Declaration:

ESA/PB-LAU/CCLXVIII/Dec.1, rev.6 (Final) attached to ESA/C-M (2019)23, rev.1

Participating States	LEAP - Ariane 5 Supplementary M€
Austria	1.96
Belgium	23.10
France	264.65
Germany	72.00
Ireland	0.49
Italy	34.00
Netherlands	7.00
Norway	2.47
Spain	9.00
Sweden	5.00
Switzerland	13.00
Covered	432.67
Not Covered	17.33
Envelope	450.00

Pillar: Enabling and Support

I. General information

<u>Programme</u> Launchers Exploitation Accompaniment Programme		<u>Envelope</u> LEAP - Ariane 6 Exploitation		
<u>Financial Envelope</u> M€ 218	<u>Economic Conditions</u> 2019	<u>Acronym</u> LEAP	<u>Phase / Time frame</u> 2020-2022	<u>Threshold</u>

II. Extract from Declaration:

ESA/PB-LAU/CCLXVIII/Dec.1, rev.6 (Final) attached to ESA/C-M (2019)23, rev.1

Participating States	LEAP - Ariane 6 Exploitation M€
Austria	0.31
Belgium	3.93
Czech Republic	0.15
France	98.00
Germany	85.00
Ireland	0.15
Italy	11.00
Netherlands	1.50
Norway	0.70
Romania	1.00
Spain	4.00
Sweden	1.64
Switzerland	3.80
Covered	211.18
Not Covered	6.82
Envelope	218.00

Pillar: Enabling and Support

I. General information

<u>Programme</u>	<u>Envelope</u>			
Launchers Exploitation Accompaniment Programme		LEAP - Vega/Vega C Transition Accompaniment		
<u>Financial Envelope</u>	<u>Economic Conditions</u>	<u>Acronym</u>	<u>Phase / Time frame</u>	<u>Threshold</u>
M€ 103	2019	LEAP	2020-2022	

II. Extract from Declaration:

ESA/PB-LAU/CCLXVIII/Dec.1, rev.6 (Final) attached to ESA/C-M (2019)23, rev.1

Participating States	LEAP - Vega/Vega C Transition Accompaniment M€
Belgium	4.80
France	30.00
Ireland	0.23
Italy	57.80
Netherlands	1.50
Norway	0.30
Spain	2.00
Sweden	0.44
Switzerland	1.00
Covered	98.07
Not Covered	4.93
Envelope	103.00

TECHNOLOGY

Pillar: Enabling and Support

I. General information

<u>Programme</u>	<u>Element</u>		
General Support Technology Programme (GSTP)	GSTP - Element 1 - Develop GSTP - Element 2 - Make GSTP - Element 3 - Fly		
<u>Financial Envelope</u>	<u>Economic Conditions</u>	<u>Acronym</u>	<u>Phase / Time frame</u>
Correspond to 'Covered'	c.e.c. c.e.c. c.e.c.	GSTP GSTP GSTP	2020-2022 2020-2022 2020-2022

II. Extract from Declaration:

ESA/IPC/CXXIX/Dec.1, rev.32 (Final) attached to ESA/C-M(2019)25

General Support Technology Programme (GSTP)				
Participating States	GSTP - Element 1 - Develop M€	GSTP - Element 2 - Make M€	GSTP - Element 3 - Fly M€	Total M€
Austria	9.70			9.70
Belgium	18.00	4.00	2.00	24.00
Czech Republic	5.00			5.00
Denmark	6.00			6.00
Estonia	1.45		1.00	2.45
Finland	3.00	0.50		3.50
France	7.00	7.00	1.00	15.00
Germany	128.00	24.00	8.00	160.00
Greece	0.50	0.90	1.00	2.40
Hungary	2.00	1.00	1.00	4.00
Ireland	1.50	3.00	0.50	5.00
Italy	25.00	30.00	50.00	105.00
Luxembourg			10.00	10.00
Netherlands	5.00	3.00		8.00
Norway		10.00	1.00	11.00
Poland	1.50	1.50		3.00
Portugal	2.00			2.00
Sweden	4.00			4.00
Switzerland	9.00	4.00		13.00
United Kingdom	28.00	8.00	4.00	40.00
Canada	0.70			0.70
Covered	257.35	96.90	79.50	433.75

AMOUNTS TO BE ALLOCATED

The following States have indicated the amounts below for future financial contributions yet to be allocated by them to the financial envelopes in the Programmes ARTES 4.0 or GSTP.

NAME OF PROGRAMME	PARTICIPATING STATE	AMOUNT M€
ARTES 4.0 - To be Allocated (TBA)	Belgium	95.00
ARTES 4.0 - To be Allocated (TBA)	Spain	45.00
ARTES 4.0 - To be Allocated (TBA)	Switzerland	15.00
General Support Technology Programme - To be Allocated (TBA)	Belgium	95.00
General Support Technology Programme - To be Allocated (TBA)	Hungary	2.00
General Support Technology Programme - To be Allocated (TBA)	Spain	30.00

COMPLEMENTARY CONTRIBUTIONS TO ON-GOING PROGRAMMES

Some participating States confirmed complementary subscription to on-going programmes listed in the table below. Their subscriptions listed below will be including in the relevant programme Declarations.

For reasons of traceability the below table shows also, with a minus (-), the amounts transferred from a Transferring Programme to another programme. Detailed information on the transfers is shown on a dedicated page at the end of the document.

NAME OF PROGRAMME	PARTICIPATING STATE	ECONOMIC CONDITIONS	AMOUNT M€
Scientific Experiment Development Programme (PRODEX)	Austria	c.e.c.	8.00
Scientific Experiment Development Programme (PRODEX)	Belgium	c.e.c.	15.00
Scientific Experiment Development Programme (PRODEX)	Czech Republic	c.e.c.	11.90
Scientific Experiment Development Programme (PRODEX)	Denmark	c.e.c.	3.00
Scientific Experiment Development Programme (PRODEX)	Finland	c.e.c.	2.40
Scientific Experiment Development Programme (PRODEX)	Greece	c.e.c.	0.40
Scientific Experiment Development Programme (PRODEX)	Hungary	c.e.c.	8.00
Scientific Experiment Development Programme (PRODEX)	Ireland	c.e.c.	0.50
Scientific Experiment Development Programme (PRODEX)	Netherlands	c.e.c.	-5.00
Scientific Experiment Development Programme (PRODEX)	Norway	c.e.c.	8.00
Scientific Experiment Development Programme (PRODEX)	Poland	c.e.c.	4.00
Scientific Experiment Development Programme (PRODEX)	Portugal	c.e.c.	3.00
Scientific Experiment Development Programme (PRODEX)	Switzerland	c.e.c.	50.00
Global Monitoring of Essential Climate Variables	Denmark	2009	0.44
Global Monitoring of Essential Climate Variables	Ireland	2009	0.13
Earth Observation Envelope Programme 5	Estonia	2016	-1.01
Earth Observation Envelope Programme 5	Luxembourg	2016	-1.59
ARTES - (2016) TBA	Switzerland	2016	-5.00
Partner SE 2 Electra	Sweden	2012	3.21
Partner SE 8A Govsatcom Precursor	Czech Republic	2016	-1.75
Partner SE 8B Govsatcom Precursor, PACIS 3 project	Spain	2017	34.28
SAT-AIS SE 2B	Czech Republic	2012	1.83
SAT-AIS SE 2B	Germany	2012	2.29
SAT-AIS SE 2B	Luxembourg	2012	3.67
Partner SE 11 QKD Sat	Czech Republic	2016	0.49
Partner SE 11 QKD Sat	United Kingdom	2016	5.86
Large Platform Mission Sub 2.2.	Austria	2006	0.90
Large Platform Mission Sub 2.2.	Italy	2006	2.29
NEOSAT	Austria	2012	0.65
Partner SE 10 AIDAN	Switzerland	2016	5.00

NAME OF PROGRAMME	PARTICIPATING STATE	ECONOMIC CONDITIONS	AMOUNT M€
ARTES Core Competitiveness (2016)	Czech Republic	2016	-3.71
ARTES Core Competitiveness (2016)	Finland	2016	-2.50
ARTES Core Competitiveness (2016)	Canada	2016	3.91
P120C Development	France	2014	9.66
Ariane 6 Development	Romania	2014	-20.00
Vega C Development	Italy	2014	9.66
LEAP Ariane 5 Classical and MCO	Belgium	2016	2.87
LEAP Ariane 5 Classical and MCO	France	2016	4.25
LEAP Ariane 5 Classical and MCO	Germany	2016	16.16
LEAP Ariane 5 Classical and MCO	Italy	2016	5.28
Ariane 6 P120C Transition Programme (A6TP) Step 1	Italy	2017	5.42
Ariane 6 P120C Transition Programme (A6TP) Step 1	Norway	2017	0.64
Ariane 6 P120C Transition Programme (A6TP) Step 1	Spain	2017	4.02
FLPP Period 3/NEO - Core Component	Austria	2012	-1.61
FLPP Period 3/NEO - Core Component	Romania	2012	-16.00

The following States announced their financial commitments to the following activities carried out in accordance with Articles V.2, IX.2 and/or VI of the Convention:

ACTIVITY	STATE	ECONOMIC CONDITIONS	AMOUNT M€
Seosat Ingenio	Spain	c.e.c.	11.40
S3T	Spain	c.e.c.	20.40

FUTURE CONTRIBUTIONS

The following States participating in PRODEX have indicated the amounts listed below for future contributions, with a view to allocate them at the earliest opportunity to the programme, and by the latest by the end of 2022.

Furthermore, in anticipation of, and subject to, the decision on the third Period of the European Exploration Envelope Programme (E3P), some Participating States may express intended financial commitments for that Period.

This table shows the amounts indicated by States participating in PRODEX (in c.e.c.) and/or E3P (in 2019 e.c.) for those future contributions.

NAME OF PROGRAMME	PARTICIPATING STATE	AMOUNT M€
PRODEX - Future Contribution	Belgium	60.00
PRODEX - Future Contribution	Czech Republic	3.30
PRODEX - Future Contribution	Spain	30.00
PRODEX - Future Contribution	Switzerland	26.00

TRANSFER OF CONTRIBUTIONS

The following table shows contributions that participating States transferred from one optional Programme (the “Transferring Programme”) to another optional Programme (the “Recipient Programme”). Where necessary, the participating States of the Transferring Programmes and those of the Recipient Programmes approved, respectively, the transfer of these contributions.

These transfers are also shown in the Recipient Programme – as (part of) a new subscription, and in the Transferring Programme, with a minus (-), if the Transferring Programme is referred to in this document 100.

To the extent that a transfer of contributions cannot be fully absorbed in the financial planning of the Transferring Programme, it will be allocated to the Recipient Programme through a revised budget for the year 2019.

Participating State	Transferring Programme			Recipient Programme		
	Name	Amount M€	e.c.	Name	Amount M€	e.c.
Austria	FLPP Period 3/NEO - Core Component	1.00	2012	FLPP - Studies, Demonstrators and Advanced Technology Core Element	1.09	2019
Austria	FLPP Period 3/NEO - Core Component	0.61	2012	Vega Evolution Preparation	0.66	2019
Switzerland	ARTES - (2016) TBA	5.00	2016	ARTES 4.0 - To be Allocated (TBA)	5.12	2019
Czech Republic	ARTES Core Competitiveness (2016)	3.71	2016	Iris Satcom Global Solution	3.80	2019
Czech Republic	Partner SE 8A Govsatcom Precursor	0.98	2016	Iris Satcom Global Solution	1.00	2019
Czech Republic	Partner SE 8A Govsatcom Precursor	0.77	2016	Space Systems for Safety and Security (4S)	0.79	2019
Estonia	Earth Observation Envelope Programme 5	0.30	2016	Business Applications - Space Solutions (BASS)	0.31	2019
Estonia	Earth Observation Envelope Programme 5	0.71	2016	Investing in Industrial Innovation (InCubed+)	0.73	2019
Finland	ARTES Core Competitiveness (2016)	2.50	2016	Core Competitiveness (CC)	2.56	2019
Luxembourg	Earth Observation Envelope Programme 5	1.10	2016	ALTIUS - Phase E	1.10	2016
Luxembourg	Earth Observation Envelope Programme 5	0.49	2016	Arctic Weather Satellite	0.50	2019
Netherlands	Scientific Experiment Development Programme (PRODEX)	5.00	c.e.c.	GSTP - Element 1 - Develop	5.00	c.e.c.
Romania	Ariane 6 Development	2.50	2014	SPACE RIDER - Step 2.2	2.59	2019
Romania	Ariane 6 Development	0.97	2014	LEAP - Ariane 6 Exploitation	1.00	2019
Romania	Ariane 6 Development	16.53	2014	Vega Evolution Preparation	17.12	2019
Romania	FLPP Period 3/NEO - Core Component	8.70	2012	SPACE RIDER - Step 2.2	9.48	2019
Romania	FLPP Period 3/NEO - Core Component	7.30	2012	Vega C CI	7.96	2019