

Space Debris Situation Report – 2019-2020

Section/Title	Previous Section	Scope	Authors	Status
1.Sources of Space Debris	Current §2 – to be updated	Include counts, mass, types, breakup events, deterioration of surfaces, etc	Holger – Mark Matney	
2.Monitoring Space Debris	Current §3 – to be updated and optical systems to be placed in Appendix	Optical, radar, in-situ, and returned samples and uncertainties	Thomas, Vladimir, Moriba, Balbir, Nicolas	
3.Risks from Space Debris (<i>Not sure to agree with the proposed structure... To be discussed</i>)				
3a	Current §7 – to be updated	Ground casualties from reentry	Marlon, Dave, Pierre	
3b	Current 6.2?	Collisions, Destruction of objects, Disrupt satellite operations <i>Structure to be clarified</i>	Darren, Moriba	
	HVI Current §3 – to be updated and optical systems to be placed in Appendix	HVI effects	Frank, Eric, Zizhen	
4.Debris Risk Management				
	Current §9	Debris mitigation description ⇔ compliance levels	Christophe Juan-Carlos, Stijn, Manuel to be updated,	Good discussion Oct2019
	Current §5 – to be updated	Collision Avoidance	Dan, Nicolas	

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	Largest part of Current §6 – to be updated	Shielding and design	Frank, Eric, Zizhen	
	Current §10 – to be updated and completed	Debris remediation D4D -	Roberto, Marko, Liang	Draft chapter received SEPT2019
		Risks associated to Debris mitigation and remediation	Marko	
5. Debris Population Evolution	Current §8 – to be updated	Key parameters: launch rates, fragmentations (explosions and collisions), longevity without mitigation, etc - just a baseline of the past and extrapolate to future	Juan-Carlos, Marlon	
		Special issues: satellite servicing, constellations, and cubesats		
X. Space Traffic Management (STM)	New	<Discuss current SDA ops and future STM concepts	Dan – Vladimir - Laurent	
6. Legal, Policy, and Regulatory Issues and Opportunities	Current §11 & 12 – to be updated		Tanja, Olga (via Vladimir)	Draft chapter received in OCT2019
7. Synthesis and further references	Current §13 – to be updated		Christophe	
Appendix			Christophe	
	Current §4	Existing: SST-SSA capabilities exhaustively described in Appendix	Thomas, Moriba	
		India	Balbir	
		EU	Vera	
		European Countries and especially the EUSST Consortium	Metz	

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		Commercial	Dan	
		ESA to be improved, European countries,	Holger	
		China	Shen Lin	
		South Korea,	Hae-Dong	
		Canada,	Michel	
		Brazil	??	
		Australia	Samantha Le May	