

"SPACE FOR ALL, ON EARTH AND BEYOND" AN 18th SDG, FOR THE U.N. 2030 AGENDA

Adriano V. Autino

adriano.autino@spacerenaissance.org

https://spacerenaissance.space

https://academy.spacerenaissance.space

2015, A "TURNING POINT" IN HISTORY







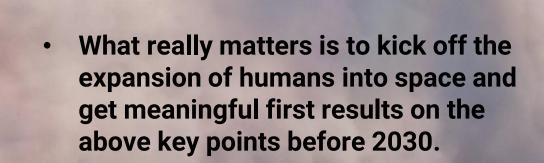
2025 to 2030: a crucial crisis-point in history

low-cost access to space

social, financial, environmental, and geopolitical crisis



- **Fully reusable launch** vehicles
- **Permanent Moon base**
- **Producing propellent in** space
- Simulated gravity
- Life protection in space
- **Commercial rotating space** stations
- Mining the Moon and the **Near Earth Asteroids**
- **Orbital Debris re-utilization**





THE U.N. 2030 AGENDA NEEDS A MAJOR UPDATE

- The 2030 Agenda was conceptualized during the traditional aerospace age
- Space technologies are already supporting SDGs on Earth
- But demonstrated not enough, for a really sustainable development.
- Indispensable/urgent to start Civilian-led Space Development (both private and public)
- We propose an 18th SDG to be added:

"Space for All, on Earth and Beyond"

Expanding human communities into outer space to benefit everyone everywhere





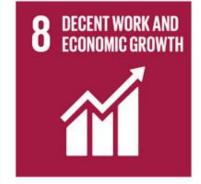
















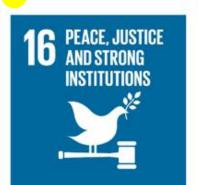














- The 17 SDGs define a utopia of our time.
- The 7th, 8th, and 9th SDGs
 economic industrial
 growth -- are key, for
 realizing the other 14.
- True sustainability of 7, 8, and 9 SDGs is the real challenge.



THE U.N. 2030 SDGS REVISED

Methodology







Planet Earth Environment







Human Life

















BENEFICIAL SOCIAL GROWTH











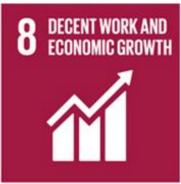
CULTURAL EVOLUTION



↑ ↑ ↑ SUSTAINABLE? ↑ ↑ ↑

EARTH-BOUND DEVELOPMENT: A DEAD END















CONFLICTUAL FACTORS:

Energy demand, increased by electronic / web society

Scarcity of key materials (rare earths), raising new resource wars and conflicts

Pollution, increased by disposal of batteries and other technological wastes

Oceans over-exploitation / pollution

Social conflicts, increased by multiple crises



THE REALLY SUSTAINABLE DEVELOPMENT GOALS

Methodology















Human Life















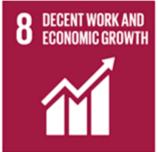


BENEFICIAL SOCIAL GROWTH

Key Pillars









CULTURAL EVOLUTION



SUSTAINABILITY

ABUNDANT RESOURCES





ENVIRONMENTAL RELIEF



Key Sustainability Factor



THE SPACE 18TH SDG HISTORY



- 2023 Sept 15: the Space18thSDG Coalition held a workshop at U. N. Plaza, in concomitance with the U.N. General Assembly 78
- 2023 June 5: Karlton Johnson (NSS) presented the 18th SDG at COPUOS 66th Session in Vienna
- 2023: Kick off the Space 18th SDG Campaign. SRI and NSS in partnership with many other organizations
- **2022**: "A feasible utopia for 21st Century", A. V. Autino: restructuring the UN 17 SDGs for the sake of true sustainability, by the addition of an 18th SDG: bootstrapping Civilian Space Development.
- **2021**: 3rd SRI World Congress, Final Resolution: *To add an 18th SDG, bootstrap the civilian space development, to UN 17 Sustainable Development Goals. In order to make the 17 SDGs feasible and sustainable.*
- 2018: Dunlop, Anzaldua, and Hanlon (NSS) present the 18th SDG to COPUOS
- **2017**: preliminary discussions on 18th SDG (NSS) and on the 1986 UN resolution on Human Right to Development (SRI)

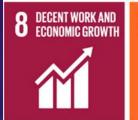


SPACE DEVELOPMENT

 ENERGY - Relocation of industry to space = - - - less energy demand on Earth



• BENEFICIAL GROWTH - Civilian astronautic industry = +++ economy (1, 2, 3, 4, 5, 6, 10, 11)





 PEACE & COLLABORATION - Wars for resources relegated to history





 ENVIRONMENT - Planet Earth relieved from industrial burden







• COSMIC SAFETY - mitigate risk of cosmic threats

INTERNATIONAL SPACE POLICY: A STEPWISE STRATEGY FOR SPACE SETTLEMENT

Facilitate the development of fully reusable, safe, 2023 Further downsize of the launch cost and ergonomic vehicles <\$500/Kg Facilitate best-practices Moon mining Facilitate best-practices asteroid deflection and 2025 Kick-off industrialization of mining the geo-lunar space Salvage and reuse orbital debris 2028 Further downsize in-space Produce propellant in space transportation cost <\$100/Kg Facilitate on-orbit spacecraft servicing Space Economy \$3 Trillion, global 2030 Build industrial infrastructure in the geo-lunar economy relaunched space Protect healthy life in space: cosmic Possibility of living and working radiation, simulated gravity, green environment, outside the Earth's atmosphere

indefinitely

ergonomics, and comfort

INTERNATIONAL SPACE POLICY: KEY RECOMMENDATIONS

- Facilitate the new space industry worldwide
- Facilitate the space tourism industry and markets
- Promote space and science education in schools
- Promote framework agreements for resource utilization and space governance based on public and private best practices
- Support Space Advocacy NGOs No strategy without philosophy
- Understand the requirements of living and working in space, with priority to life and health protection
- In summary, we recommend the requisite research & development and the mentioned space settlement strategy for any context where strategic decisions are undertaken.

THE SPACE 18th SDG UNDERSTANDING AND PROMOTION

- The Space 18th SDG Coalition includes almost 70 organizations(*)
- Each organization holds its own preferred concepts and rationales, in support of the 18th SDG proposal
- For the sake of the largest as possible support, authors and organizations are free to bring their own rationales, as a contribution to the campaign
- The use of the Space 18th SDG logo is allowed on all presentations and brochure
- This presentation/brochure represents the vision of the author, Adriano V. Autino,
 CEO and Founder of the Space Renaissance International

^(*) see the list of the Space 18th SDG Co-promoters: https://spacerenaissance.space/the-space18sdg-proposer-organizations/

THE SPACE 18th SDG LOGO

18 SPACE FOR ALL, ON EARTH AND BEYOND



- The Space 18th SDG logo is the outcome of a conceptual discussion among the Co-Promoters
- The logo represents two key concepts of the 18th SDG, and their synergistic relationship:
 - 1. Civilization expansion into outer space
 - 2. Space technologies to enhance sustainability on Earth's surface^(*)

^(*) both satellite technologies and technologies experimented by communities living and working in space

SIGN THE #SPACE18SDG PETITION

https://www.change.org/space18sdg

ADD YOUR ORGANIZATION TO THE ALLIANCE OF THE CO-PROMOTERS

https://spacerenaissance.space/sign-the-18th-sdg/

THANKS FOR YOUR ATTENTION!





