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2018

UNITED NATIONS RED SUMMIT, 2022

AGENDA

ROADMAP FOR THE FUTURE  
DEVELOPMENT OF MARS

COMMITTEE TIMELINE

## **Note from the Executive Board:**

### **Greetings Delegates!**

We hope that all the delegates have done a thorough reading of the Background Guide which had already been provided for the committee. The Background Guide is only to serve as a basis for the start of your research, and should in no means be considered as the final document to complete your research.

The following document is a compilation of the timeline which would be followed in the committee region-wise. Delegates are requested to always keep in mind that the events noted in the timeline have actually taken place, and your actions in the committee should be in accordance with what has already happened in the past.

The delegates are requested to go through the entire timeline, without which they will not be having a sound idea of the events of the past, which would affect their performance in the committee.

**Note: The freeze date for the committee is 18<sup>th</sup> November, 2022.**

Regards,

The Executive Board for the **United Nations Red Summit 2022**



# **PART 1:**

**4<sup>th</sup> July, 2018:** **Paul Krugman**, the renowned economist has expressed his concerns and added fuel to long time speculation of economic slowdown in China by saying, “China might face a real estate debacle and an overall hit to its economic activities by the last Quarter.”

**7<sup>th</sup> September, 2018:** First signs of major economic slump down are visible in the Chinese economy;

“After decade long speculation, the Chinese bubble collapses” reported The Economic Times in its article dated 4<sup>th</sup> September. According to leading Chinese economist, David Daokui Li, “The market is grasping for breath in the downpour, the government will surely come to the rescue there is nothing serious about it.”

**12<sup>th</sup> December, 2018:** The warming relations of Russia and China reached its epitome today, when the diplomats of both the countries met here in Beijing and finalized a major space collaboration, which will include the initiation of ‘**Convention on Outer Space and Extraterrestrial research Collaboration**’ (COSEC) in October next year. Other details are yet to be divulged.

**23<sup>rd</sup> January, 2019:** In an official confirmation of the developments of the COSEC. Xi Jinping and Vladimir Putin have announced the development of an ‘order’ that will harmonize the international space program. The convention is essentially for the lesser developed countries and many of the African countries are already on board. The order surely has something for the future. Putin in his speech stressed on the importance of an all-inclusive space research structure, he also made a point which laid emphasis on prospects for future which Outer Space holds.

**25<sup>th</sup> February, 2019:** The Chinese Real Estate is facing its worst crisis with financial institutions apprehensive about speculative investment; the government has stepped up fiscal measure and is using surplus funds to tone down the recessionary trends in other allied business models. The Chinese exports have been hit. The Government however continues to remain optimistic.



**13<sup>th</sup> October, 2019:** The first meeting of COSEC was convened in Addis Ababa, Ethiopia. The Head of states of the 54 countries of African Union, China, Russia and Argentina met and signed the **1<sup>st</sup> COSEC document**, which aims at “higher degree of cooperation and collaboration among its members when it comes to Space research and exploration.” The document has also sought to establish what has been termed as “collective consensus of members in preserving and advancing the outer space interests of all member states”. There are possibilities of China and Russia advancing their footprints in the African continent with this accord.

**24<sup>th</sup> March, 2020:** China successfully launches a first of its kind combined Orbiter and rover mission to Mars christened **Shànyì-1** meaning “Goodwill.”

**15<sup>th</sup> August, 2020:** China’s real estate debacle soothes down but the government surplus is at an all-time low due to reconstructive measures, **Chinese officials have been asked by Xi Jinping to prepare a plan to open the large Chinese economy to selective products** to resurrect the country back into the global trade arena.

**3<sup>rd</sup> December, 2020:** The Chinese Mars Stimulation Base in Tianjin is nearing completion; Richard Branson has reportedly also invested in the faculty to be able to use it for its own company. The 480 million Yuan project, named **Hóngsè fùzhì pǐn (Red Replica)**.

**8<sup>th</sup> April, 2021:** The Russian State Space Agency, ROSCOSMOS budget increases by 65%; “The Russians are moving quickly towards space parity with NASA” quoted an insider.

**24<sup>th</sup> August, 2021:** With mounting financial inadequacy of Chinese institutions, the government has taken up measures to counterpoise the imbalance which erupted 2 years ago. The trading activities have been hit. Government is looking at ways to reduce expenditure. Certain welfare schemes can be withdrawn for some time.

**26<sup>th</sup> October, 2021:** The second meeting of COSEC; Talks for an African Union space agency are catching up. No formal news has come up yet. Xi Jinping in his address here in Cape Town said “African countries’ space interests are best preserved with COSEC. There (interests) advancement lies in the hands of the African Union itself. China will surely support there endeavors”



**3<sup>rd</sup> December, 2021:** “Russian Vostochny Commodore has been provided with fresh grants to enlarge its functional capacity and reduce pressure on Baikonur Cosmodrome.” reported **The Independent**.

**12<sup>th</sup> February, 2022:** Pakistan joins the **COSEC**. Pakistani PM Shahid Khaqan Abbasi announces that the government of Pakistan would design policies aimed to improve the quality of education in science in the high schools and universities so that in future Pakistan (**SUPARCO**) may send a mission of its own to Mars. PM Abbasi hoped that that Russia and China would help Pakistan in achieving this dream.

**17<sup>th</sup> March, 2022:** The African Union today, created history by announcing the plans of combined Space Agency for the African continent. The announcement was made here in Abuja, Nigeria. Following a meeting of several diplomats of all nations of the AU, the announcement was made. The details are still under wraps. However Nigeria, South Africa, Ghana, Algeria and Egypt are expected to lead the way with some experience in the field. The development has surely reflected importance Space has each and every nation.

**23<sup>rd</sup> July, 2022:** The Yuan fell for third consecutive day today. Russia has approved of the new space program and increased the number of annual spaceflights for the next year.

## **PART 2:**

**June 2018:** The Presidential Approval Ratings of Donald Trump fall to a new slump to 29% (as reported by Gallup Inc.) after the emergence of a new consensual relationship with the Hollywood actress, Omarosa Manigault, who was also the director of American-African Outreach during Trump’s election campaign in 2016. The explosive new report was published by the CNN.

**August 2018:** Stuart Rothenberg, the famous American political analyst wrote a column on the United States Elections, 2018 in his biweekly political newsletter, Inside Elections, “*the atmospherics remain strongly in disapproval of the GOP, and major Democratic gains are extremely likely*” and that “*it’s clear that the battleground is on the Republican soil. Obviously control of the House is at risk.*”



**October 2018:** Congress Quarterly which primarily reports on the United States Congress, with one month to go for the United States Election, 2018 projected that Democrats would take 215 seats, the Republicans would take 180 seats and 40 seats were too close to call. The reasons for the prediction of a Democrat House takeover was cited as the public disapproval of Russian interference in the US Presidential Elections, 2016, the struggle behind the so-called “Trump-care” Health Bill aimed to replace the Affordable Care Act, more commonly known as Obama-care and the emergence of various consensual relationships.

**6<sup>th</sup> November, 2018:** The Democrats regained the majority in the House after the defeat in 2010 midterm elections. The Democrats won 265 seats with the Republicans winning 180 seats. Although the sitting US President’s Party usually loses seats in a mid-term elections, the 2018 elections resulted in the highest loss of a party in a House midterm election and the largest House swing since 2010.

In the United States Senate Elections, the Democrats managed to defend all the 24 seats up for election whereas the Republicans lost 5 seats out of the 9 that were up for elections to the Democrats. The Democrats regained majority in the US Senate with 52 seats after the 2014 elections.

**9<sup>th</sup> June, 2019:** Former Vice President, Joe Biden declares his candidacy for the Democrats in the 2020 US Presidential Elections at the Wilmington train station where he had declared his candidature as a Presidential nominee for the first time way back in 1987. Biden was expected to announce early enough to set the field of challengers around him.

**August 2019:** Vermont Senator Bernie Sanders and California Senator Kamala Harris also announced their candidature for the Democrats in the 2020 elections against Joe Biden.

**October 2019:** Jet Propulsion Laboratory tests the new entry, descent and landing (EDL) technologies, i.e. Terrain Relative Navigation (TRN) for the Mars 2020 rover scheduled to launch in August 2020. Terrain-Relative Navigation allows the rover to detect and to avoid hazardous terrain by diverting around it during its descent through the Martian atmosphere.



Michael M. Watkins, Director of JPL informed the public through a press conference that the test was a successful one and said that NASA and JPL were more than ready for the successful launch of the Mars 2020 rover in July/ August 2020.

**January 2020:** NASA organizes a public demonstration of the Mars 2020 rover at the Kennedy Space Center in Merritt Island, Florida.

Robert M. Lightfoot Jr., Administrator of NASA provides an overview to the mission of Mars 2020 rover. He explained that the Mars 2020 rover would introduce a drill that can collect core samples of the most promising rocks and soils and set them aside in a "cache" on the surface of Mars. To keep mission costs and risks as low as possible, the Mars 2020 design is based on NASA's successful Mars Science Laboratory mission architecture, including its Curiosity rover and proven landing system. Robert M. Lightfoot Jr. said that the rover would be launched in July/August 2020 when Earth and Mars are in good positions relative to each other for landing on Mars.

**March 2020:** Donald Trump in an interaction with media at the Oval Office, The White House announces that he will be standing up for re-election in 2020 US Presidential Election with Mike Pence as his running mate. Trump sounded confident of his victory in the elections as he believed that his slogan "Make America Great Again" was turning out to be a reality as well as the American public felt related to it.

**May 2020:** Elon Musk, the founder of SpaceX tweeted that he planned to apply for the human-rating certification to carry NASA astronauts on board the Falcon Heavy and the BFR for future human expeditions to Mars.

**June 2020:** NASA announces that Mars 2020 rover will be launched on 18th August 2020 from the Cape Canaveral Air Force Station Space Launch Complex 41. The landing site for the Mars 2020 rover will be NE Syrtis. The landing site was decided after three years of survey by a team of scientists at NASA. Robert M. Lightfoot Jr., the NASA administrator said that the layered terrain of NE Syrtis holds a rich record of the interactions that occurred between water and minerals over successive periods of early Mars history and thus, there is a huge chance that microbes could have flourished in the water in contact with the minerals.





**18<sup>th</sup> August, 2020:** Mars 2020 rover is launched at 15:02:00 UTC from the Cape Canaveral Air Force Station Space Launch Complex 41. The rocket used for the launch is Atlas V 541. The launch was a successful one.

The launch was attended by Donald Trump and First Lady Melania Trump. The launch was watched on television by people all over the world.

Jeff Bezos, founder of the Blue Origin in a tweet congratulates NASA and JPL for the successful launch. He also informed that the new Glenn orbital launch vehicle is in its final stage of development and the first test launch will be conducted by April 2021.

**September 2020:** Joe Biden wins the primaries and is declared as the Presidential nominee for the Democrats. Joe Biden chooses Senator Kamala Harris as his running mate.

**October 2020:** US Senate Select Intelligence Committee on the advice of the Special Counsel Investigation headed by Robert Muller which was investigating the Russian interference in 2016 Presidential Elections rules that taking into account the conclusive evidence and testimonies it can be surely said that there was certainly a Russian interference in the 2016 elections. The Counsel ordered the Executive office of the POTUS to reinstate James Comey as the FBI Director.

Donald Trump says that he is deeply shocked by the ruling and describes James Comey as “a crook who had his day.” With one month to go for the elections, the ruling came as a shock to the Republicans.

**3<sup>rd</sup> November, 2020:** Joe Biden wins the US Presidential Elections comfortably with 330 seats in the Electoral College as compared to 208 seats won by Donald Trump. Joe Biden will be the 46th President of the United States of America.

**20<sup>th</sup> January, 2021:** Joe Biden in his inaugural address as the US President stressed on the importance and benefits for humanity in exploring Mars. He also quoted the famous words of Neil Armstrong, “one small step for the man, a giant leap for the mankind.” He declared that in the coming two years the annual budget of the NASA will be increased by 10% and wished that the first man to walk on the Martian soil was an American.





**12<sup>th</sup> February, 2021:** Mars 2020 rover successfully lands on NE Syrtis.

Robert M. Lightfoot Jr., the NASA administrator applauded the hard work done by the scientists at NASA as well as the engineers and designers at the JPL for the successful landing.

**March 2021:** The test flight of the new Glenn orbital launch vehicle takes place from the Blue Origin's launch facility in West Texas. Jeff Bezos, the founder was also present at the facility during the test flight.

After a successful test flight, Bezos announced that the new Glenn rocket will start its commercial operations from next year.

**August 2021:** David Muilenberg, CEO of the Boeing and Marlin Hewson, CEO of the Lockheed Martin issued a joint press release which stated that they will be attempting to send an unmanned mission to Mars in July 2022. The test flight will be conducted in January 2022.

**November 2021:** Elon Musk, CEO of the SpaceX organizes a surprise event at MGM Garden Arena in Las Vegas with special invites being sent to important dignitaries all over the world.

At the event Elon Musk informed that his Tesla Roadster which was a dummy payload on board the Falcon Heavy launch had slightly exceeded the orbit of Mars at aphelion. He also announced that SpaceX Mars, 2022 mission will now be launched in August instead of October as initially planned. He also informed that the test flight will be conducted in June 2022. He informed that SpaceX had acquired the human-rating certification to carry NASA astronauts on board the Falcon Heavy and the BFR for future human expeditions to Mars. One thing to be noted was that Musk was pretty confident that SpaceX would send the mission to Mars successfully and ahead of Boeing-Lockheed Martin.

**January 2022:** The test flight launch of the Boeing-Lockheed mission is successful. After the successful test launch, David Muilenberg announces the name of the mission as 'Omnia.'

**March 2022:** Blue Origin launches the first commercial flight of the new Glenn orbital launch vehicle for the One Web from the Spaceport Florida Launch



Complex 36. Many were quick to speculate that Blue Origin would soon enter the race to Mars against SpaceX and Boeing-Lockheed Martin.

**May 2022:** Bill Nye aka the Science Guy, Buzz Aldrin and Neil De Grasse Tyson at a town hall organized at MIT spoke about the importance of the exploration of Mars and what importance it holds for the humanity. They wished for a future where there will be human outposts on Mars and there will be no division among the countries and all will reap the benefit of the resources found on Mars as per the principle of “Common Heritage of Mankind.”

**June 2022:** The test flight of the BFR takes place from the new SpaceX South Texas Launch Site. The launch was attended by Elon Musk who after the successful launch announced the name of the mission as “Hawkeye.”

**July 2022:** ‘Omnia’ was launched at 11:02:00 UTC from Kennedy Space Center LC-39. The launch was a failure. Certainly, Elon Musk’s predictions were turning out to be true.

**August 2022:** “Hawkeye” was launched from the SpaceX South Texas Launch Site at 15:45:00 EST. The launch was a successful one.

Elon Musk tweeted minutes after that he was elated after the successful launch and next mission would be launched in 2023 instead of 2024 and other developments about the mission will follow soon.

## **PART 3:**

**November 2019:** Ali Khamenei, the Supreme Leader of Iran announces that the Iran Space Agency will send its first flyby mission to Mars by 2024.

**April 2020:** Secretary General of the Gulf Cooperation Council issued a press release which wished UAE for the success of the Hope Mars Mission, and he also talked about the need for Arab nations to invest in the outer space exploration which could also help them to find natural resources which could decrease their dependence on the oil in future.

**July, 2020:** Hope Mars Mission is successfully launched from the Mohammed Bin Rashid Space Centre at 08:45 Gulf Standard Time. The launch is attended by the



members of the royal family. With the successful launch, UAE became the first Arab country to send a mission to Mars.

**April 2021:** Benjamin Netanyahu, Prime Minister of Israel declared that the objective of the Israel Network for Lunar Science and Exploration under the Israeli Space Agency will now not only be limited to the discovery of the Moon but also of the other celestial bodies with the a priority on sending an unmanned probe to Mars by 2025 and henceforth this program will be called Israel Network for Celestial Bodies Exploration. He expressed to collaborate with ISRO for the successful implementation of the program.

**2<sup>nd</sup> December, 2021:** Hope Mars Mission successfully enters the orbit of Mars. After the successful insertion, His Highness Mohammed Bin Rashid Al Maktoum in an address to the people to commemorate the 50th Independence Day said that with this UAE had taken a step towards making mankind a multi planetary species and declared that UAE will send a manned mission to Mars by 2029.

**February 2022:** World population crosses the 7.8 billion mark, 2 years ahead of its projection. Global mean temperature has also reached 2 degree Celsius. Highest temperature is recorded in Rub' Al Khali Desert at 58.8 degree Celsius surpassing the Death Valley in California which recorded 56.7 degree Celsius in July 1913.

## **PART 4:**

**19<sup>th</sup> June, 2018:** Post the elections held in Karnataka, where, as expected the Indian National Congress again secured a majority of 105 seats, however, the thing to note in those elections was the increase of the seats won by the Bharatiya Janata Party to 65 seats, which in itself is an increase of more than 150%, clearly the nation has slowly started to see what the government at the Centre has done for the nation.

**August 2018:** In the monsoon session of the Lok Sabha, the minister on being questioned on the postpone of the Chandrayaan 2 mission, answered that the same was undergoing some crucial tests as were suggested by the scientists working on the mission, and that the mission was surely to be launched in the first week of October.



**19<sup>th</sup> September, 2018:** Considering the upcoming 2019 elections, the leaders of several parties declared the formation of a great coalition as an opposition to the Bharatiya Janata Party, parties like Bahujan Samaj Party, Samajwadi Party and the Janata Dal (Secular). This was initiated as an opposition to the growing influence of the Bharatiya Janata Party, considering the coming general elections in 2019; this is indeed a huge step in the Indian politics. This grand alliance also got the support of the Indian National Congress.

**October 2018:** After the success of the tests which had postponed the launch of Chandrayaan 2 from April, ISRO's second lunar mission was successfully launched into outer space. This indigenous mission would be useful in sending back information collected from the surface of moon by the moon rover, to be used to analyze the lunar soil.

**31<sup>st</sup> December, 2018:** While the Indian National Congress again managed to maintain their stronghold in the state of Mizoram, there was an increase in the number of seats which were secured by the Bharatiya Janata Party, and they only missed the majority by a small margin, this increased support even in the regions of dominance of the other parties, surely speaks for itself. A Happy New Year it is for the Indian National Congress not so much for the other parties.

**January 2019:** Chhattisgarh elections yet turned out in the favor of the Bharatiya Janata Party, when the party single handedly won the elections securing a majority of 60% of the contested seats in the state.

The elections in the state of Madhya Pradesh showed the wave of anti-incumbency against the BJP government in the state and INC came back to power in Madhya Pradesh after 15 years.

Rajasthan elections were yet another feather in the victorious cap of the Bharatiya Janata Party when they won the elections with a clear majority of seats in the Legislative Assembly.

**April 2019:** The much anticipated general elections of 2019, did present the desired results. The Bharatiya Janata Party secured a majority of seats and votes in the elections and the Bharatiya Janata Party did maintain its stronghold at the Centre. Though the vote share of the BJP reduced to 28% from 31% in 2014



showing a wave of anti-incumbency against the NDA government NDA could not achieve its mission of securing 414 seats and only managed to secure 320 seats.

**May 2019:** The elected Prime Minister, Shri Narendra Modi while addressing the nation started off by saying that indeed he was very thankful for the support he had received from the people of the nation. He further laid stress on the importance of the future space missions which ISRO would be launching. He tried explaining the potential that the outer space holds for humanity, and possibly how the government would aid in putting the same to maximum use. He continued by saying that, “Space indeed is the biggest unknown out there, and still remains to be one.” He picked it off his speech after the successful launch of Mangalyaan. Modiji also talked about the developments that the Indian Space and Research Organization has undertaken, India became the first nation to put up the call out to all different nations, in a step to stand united against the increasing pollution. He also talked about the association of ISRO and CNES (the French Space Agency), and how important the collaboration indeed was for both the nations.

**June 2019:** The Telangana elections yet again turned out in favor of the Telangana Rashtra Samiti, when the party secured a majority of more than 55%, while Indian National Congress secured the second highest share of votes. The result as all can say was expected, considering the large margin with which the party last time had put aside all competition.

The Andhra Pradesh elections did register the dominance of the Telugu Desam Party as the party for the second consecutive time won the elections, the party with the second highest share of the seats was the Indian National Congress.

**August 2019:** After the successful launch of the Chandrayaan 2 mission, the BJP party continued to focus on the importance of outer space research. The mission has successfully sent back high definition pictures of the unexplored south pole of the moon, the same would aid in the plans of human habitation as was proposed earlier, however, all the same still remains to be a pretty far-fetched thought. The Director of ISRO, Kailasavadivoo Savan addressed the media, he talked about the successful implementation of the Paris Agreement, and monitor the human-induced greenhouse gas emissions.



He said that the bringing together of multiple space agencies, indeed is a huge step towards the international cooperation, he said that the same would also help in effectively controlling the excess pollution. He also shared the information regarding the Mangalyaan 2 mission, to be launched in 2021, he said that the mission was in progress, and all set to launch by the proposed date. As a follow-up to the first Mangalyaan mission would to obtain the required information to project an interplanetary mission in the near future.

Second would be to confirm the presence of methane in the outer atmosphere of the Red Planet. The same would also be installed with a lander and a rover in addition to the orbiter, the lander would focus on “in-situ” observation, while the orbiter would focus on the observation and evaluation of the atmosphere of Mars, which could in turn be advantageous in exploring the possibility of outer-space life.

**October 2019:** The French Minister for Foreign Affairs and International Development, Mr. Jean-Marc Ayrault when questioned about the joint space exercise, and the invested revenue in the Mars Orbiter Mission, he said, “This is a golden opportunity to strengthen the bilateral ties between the two great nations. Moreover the two nations were never involved in a direct conflict, but due to alliances with other nations, however, now when both the nations are thinking of progressive mutually beneficial relations, this is indeed a huge step for both the nations.”

**10<sup>th</sup> December, 2019:** The elections to be held in Haryana have drawn to a close, and the results of the elections say a lot. INC secured an astounding share of seats of approximately 85%, while the remaining share of the seats was shared by all the remaining parties appearing for the elections. Interesting to note, that the Bharatiya Janata Party only managed to secure 1% of the total seats, this indeed is their lowest seat count in the entire country.

**January 2020:** Heads of ISRO and CNES in a joint question-answer session, pertaining to the development of the MoM 2, declared that there might be an addition to the mission main objectives. The rover which would be launched into space would now also be installed with a machine which would absorb some of the





atmospheric gases from the Martian atmosphere, so as to analyze the existence of life-sustaining gases, if any.

**May 2020:** Prime Minister Narendra Modi urges the SAARC nations to build outer space launch capabilities and wishes for a collective space agency of SAARC nations. He assures that ISRO would be fully committed to this cause. Bangladesh supports the stance laid forward by India.

**June 2020:** The director of ISRO confirmed the launch date of the Mangalyaan Orbiter Mission 2 on the 29th of January, 2021. He stated that there are some final tests that need to be run for the MoM 2, and that new technology which was to be installed has indeed been done. Both the ISRO and the CNES have worked pretty hard on the mission, and both the nations have invested in a lot of funds for the success of the mission.

**August 2020:** The Prime Minister of India addressed the media where he said, that the Mangalyaan 2 mission would indeed be a next achieved milestone in the successful research of the Red Planet, Mars. The study of the composition of the atmospheric gases on the surface of Mars, could also give the scientists an insight into the possible source of origin of the gases.

**November 2020:** A couple of months before the proposed launch date of the Mangalyaan 2 Mission, the scientists at ISRO have declared that the mission has fulfilled all the requirements, and is indeed set for launch as per the proposed date. The scientists have equipped the labs with further new technologies so as to monitor the launch of the mission.

**29th January, 2021:** The Mangalyaan 2 Mission, was successfully launched as of today, the orbiter has made its way out of the atmosphere of Earth, and is heading towards Mars. No technical problems have been faced as of yet, which is something the scientists would hope continues.

**March 2021:** An unprecedented event occurred while the MoM 2 was on its way to Mars, it was hit by a band of asteroids, as of now the extent of the damage has not been evaluated, however, it can be said for sure that quite some damage could have been done to the orbiter mission.





**August 2021:** ISRO just received an update on the ongoing MoM 2, which shows that the collision with the asteroids has resulted in the loss of the communication antennae which were installed externally. As of now, the loss surely means that the MoM 2 would not be able to send back any images from the surface of Mars, now the question that arises here is if the MoM should be met with an intercept which should be dispatched with immediate effect, which should be responsible for repairing the communications of the MoM, or replacing those with new.

It is not difficult to ignore that the intercept mission is plausible, however, is very difficult. Secondly, this would mean that there would be an additional two months' time added to the MoM 2, and the technicalities of the intercept are incredibly tough. Any miscalculations would lead to further losses on the part of Indian Mission, and could eventually lead to the abandonment of the mission, in general.

## **PART 5:**

**29th March, 2019(11:00 pm GMT):** United Kingdom finally exits from the European Union. PM Theresa May in an official speech outside her residence at 10 Downing Street emphasized how important Brexit was for the people of the United Kingdom. She said that now the companies in the UK will not be bounded by the laws of European Market and which will in turn bring more employment opportunities for the people in the United Kingdom.

The transition period will be from 29th March, 2019 to 31st December 2020 under which people will be allowed to move freely across the Europe. UK could sign trade deals on its own but they would only be effective from 1st January, 2021.

**June 2019:** The proposed date for the launch of the ExoMars mission has been postponed from what was scheduled as 19th January, 2020 due to unforeseen circumstances and a no-go by the board of scientists evaluating the safety of the mission. The circumstances under which the same has been exercised are yet to be declared however, sources tell us that it was the lack of safety equipment in case of a mission failure, which was why the mission launch has been postponed.

**November, 2019:** Following the events of June when the proposed date for the launch of the ExoMars mission had been postponed, a final date has now been



released for the launch of the mission as the 12th of March, 2020. The scientists have said that the tests are in progress and most probably the mission would be launched on the rescheduled date without any further delays.

**29th January, 2020:** As of today, the scientists working at the ESA have confirmed that the ExoMars mission has successfully completed all the prerequisite tests for launch, and is all set to launch. There have been no further complexities in the mission till date, and that the scientists are looking forward to the success of the mission.

**12th March, 2020:** Due to bad weather conditions, the launch of the ExoMars has been delayed as of now, and a final date for the launch is yet to be decided as the scientists await the arrival of the weather report of the following week.

**15th March, 2020 (0800 hours):** After much wait, the weather was finally clear for the launch of the ExoMars mission, the launch was successful despite an initial setback due to some technicalities; however, the mission was finally airborne and all set towards Mars.

(0919 hours): After having travelled some 79 minutes in outer space, and unprecedented loss of communication was noticed and taken note of, despite the same, the mission continued on its way. After some time it was noticed that the loss of communications was a result of the failure of the secondary engine which supported the communications system. The primary engine was supposed to support the mission only for some 15 minutes without the support of the secondary engine, however, as was reported earlier there were some technical faults in the functioning of the engines, and the mission was launched into outer space without resolving the same.

As a result of this the primary engine couldn't last more than 5-6 minutes and caused the loss of the temperature fluctuating system on the mission, this resulted in icing on the external surface of the mission, which in turn meant the addition of dead weight to the mission, and due to loss of engines the mission could not continue on its path, and it in turn became a projectile which would be attracted towards the surface of Earth due to the gravitational force.

As soon as the mission entered the Low Earth Orbit it started disintegrating into two to three humongous pieces which would just be asteroids free to any part



they wish to. The mission failure can be attributed to the lack of communication between the various departments of the ESA or more over to the lack of attention to the meager details like that of the primary engine, or a false-safe mechanism just in case something like this would've actually happened as it did. One of the asteroids hit the Tsubame satellite of JAXA.

Now the European Union stands responsible for the destruction of a satellite belonging to Japan. The community of nations must take action against the same, so as to prevent any such accidents in the future.

**April 2020:** CERN Director, Fabiola Gianotti and Friedrich Spader, CERN's Head of Technical Design announce that the CERN team working with European Space Radiation Superconducting Shield project that they have achieved successful results with development of a superconducting magnet. This would protect astronauts from cosmic radiation during deep-space missions. This would exploration missions to Mars or other distant destinations possible.

**June 2020:** More than one year has passed after the United Kingdom's official exit from the European Union and the effects of it on the economy and polity have been disastrous. The unemployment rate has fallen to 5.9% which has surpassed the 40 year-low of 4.3% (June 2016). Though the government signed trade deals/MOUs with many nations and multinational companies but since they will only be effective from 1st January, 2021 they failed to improve the worsening situation. There were large scale protests in Scotland and Northern Ireland to rejoin the European Union.

**November, 2021:** The head of CNES declared that a majority of the scientists at CNES were against the supply mission to the MoM 2, for the same would involve sending of some of the most advanced French technology into space, and if they crunched the numbers they clearly say that the chances where the intercept successfully meets with the MoM 2 are bleak. This is new for ISRO which till now had received complete support from the French, however, now the nations must sit down and discuss this for upon this decision lays the safety and the success of the Mangalyaan Orbiter Mission 2.

**January, 2022:** There were seen campaigns on the streets throughout the country in protest against the decision of abolition of the Human Rights Act; the general



public seemed to be in support of the Labour Party, which was against the abolition. The move as expected has turned out to be an important decision which would surely bring about some difference in the Elections this May. Jeremy Corbyn, the leader of the Labour Party criticized the party on the withdrawal of the Human Rights Act and its ineffectiveness to deal with the situation of increasing unemployment in the UK.

**April, 2022:** In the recently concluded presidential elections in the nation, for a second time, Emmanuel Macron of En Marche again secured a majority and won the elections by a huge margin. Though the margin was smaller than the one with which he won the elections, he has retained his seat. Competing Emmanuel for the elections was Marine Le Pen of the National Front, the elections again were pretty much like last year's. Marine Le Pen led the first round of votes considerably, while Macron pulled back the votes in his own favor in the second round of voting, and the rest is history.

**May, 2022:** Emmanuel Macron in his first speech as the President of France, focused on the intercept mission which was being planned for the MoM 2, and said that he'd leave the decision upon the scientists at CNES to decide, and that he hopes India would understand and consider with full faith the decision of the French Government, and that this would in no manner hamper their foreign relations.

Results for all constituencies in the United Kingdom except Kensington were reported by the morning after the election. The Labour party had secured 380 seats with 52% votes while the Conservatives secured 210 seats which was 30% of votes, the same was expected as the decision of the abolition of the Human Rights Act was unpopular among the masses.

**June, 2022:** Jeremy Corbyn became the Prime Minister of the United Kingdom. In his first speech from the 10 Downing Street assured the public that the Labour Party would effectively deal with problems of worsening economy and the protests against the withdrawal of the Human Rights Act and the demand to rejoin the European Union. Jeremy Corbyn made it clear that UK won't be rejoining the European Union and would be looking for alternatives to deal with the current situation at hand.

The inflation rate in the UK has risen to 4.3%. Though the unemployment rate reduced to 5.7% a lot needs to be done otherwise the day is not far when the sun will set down in the once fabled as Great Empire.



## **PART 6:**

**April 2021:** Kim Jong-Un announces that a team of scientists at NADA would join CNSA at its Red Replica Project at Tianjin. Kim Jong-Un made it clear that DPRK would not be joining the COSEC in future and this was just a scientific mission. United Nations Secretary General, Antonio Guterres was quick to appreciate the step taken by DPRK and said that nations should try to achieve peace in the world through such scientific engagement between nations.

**September 2021:** Moon Jae-in, President of the Republic of Korea and Angela Merkel, Chancellor of Germany announced that they would be setting up a state of the art of research facility in Seoul. The research facility as announced would deal with developing spacecraft vehicles which would be installed with self defense mechanisms from the space debris for protecting the satellite from damage (as happened in the launch failure of ESA's ExoMars Mission where it destroyed Tsubame satellite of JAXA. They also announced that they have already on board Japan which would also be a part in the development of this research facility. They said that protection of spacecraft vehicles was necessary to ensure the safety of which

Vladimir Putin, President of Russia on the announcement said that these spacecraft vehicles can also be militarized which is a direct violation of the Outer Space Treaty of 1967, which prohibits militarization of outer space. Justin Trudeau, the reelected Prime Minister of Canada also announced that it would not support nations which try to hamper the peace and order of the world for their mutual benefits.

**May 2022:** Mars One successfully launches the demonstration mission to Mars which will provide proof of concept for some of the technologies that are crucial for Mars One's human mission to Mars. Bas Lansdorp, CEO of the Mars One said that the preparation for the 2031 manned mission to Mars was on schedule and that the first outpost simulation location just like Mars for the crew training will be announced in the coming months.



**June 2022:** Alarmed by the increase in global mean temperature to 2 degree Celsius, world population crossing 7.8 billion mark two years ahead of its projection and increased interest of the community of nations and non-governmental organizations in the exploration of the Mars, Antonio Guterres, the Secretary General of the United Nations makes an announcement to convene a summit to discuss the roadmap for future development of Mars. He said that the summit would be convened by the end of this year.

**September 2022:** United Nations Department of Economic Social Affairs announces that the United Nations Red Summit with the agenda to discuss and decide future roadmap for the development of Mars will be convened at Addis Ababa, Ethiopia from 18th November, 2022 to 20th November, 2022. UN DESA assured that adequate representation would be provided to countries with active and least active space programs and non-governmental organizations.

**See you in the committee!**

