

# IMANOFUTU

Vol: 2

*The eventful start of  
Sugirl's Presidency*

P. ANIL PRASAD

IMANOFUTU (Series)

**Volume 2, Subtitle: The eventful start of Sugirl's presidency**

Author : P. Anil Prasad

Imprint edition Published at : The Create Space Independent  
Publishing Platform

(An Amazon Company)

Year of publishing : December, 2014

Copyright © 2014 Author

**License : CC-BY-SA**

ISBN : 1505514444 (for the imprint edition at CS)  
ISBN-13 : 978-1505514445 (for the imprint edition at CS)

## DEDICATION

To my Dearest Mother Earth



# CONTENTS

	Acknowledgments	i
	Forward	1
1	The 22nd century begins	3
2	Humit retires from politics	6
3	The presidential election	8
4	The Imanofutean way of voting	10
5	Sugirl; a genetic wonder	12
6	An amazing Sugirl	14
7	Sugirl as a student	16
8	Sugirl in politics	18
9	Swearing in as president	20
10	The smooth change of guard	22
11	High-temperature and nano farming; the first announcement from the president	24
12	A revolutionary decision on flying saucer technology	26
13	Adaptation	29
14	A space emergency	31
15	An emergency VHM meeting of heads of nations	34

16	Viruses again!	36
17	A network disaster	39
18	Is man alone in the universe?	42
19	First weekly VHM interaction of the president	45
20	A beautiful Sunday	48
21	Rejuvenated industry	51
22	Sugirl's dreams about a deep water mass-transit system	54
23	Sugirl's dream speech at the Space Agency	56
24	A bill for revolutionary changes in health care	60
25	An emergency in the sky over Imanofutu	64
26	An emergency meeting in the air	67
27	Investigating aliens in the air	69
28	How to establish communication with aliens	71
29	Alien vehicle and liquid functioning systems	73
30	Studying the aliens	75
31	Energy source in the alien vehicle	77
32	Flight systems of the alien vehicle	79
33	Netizens' community networks celebrates the alien arrival	81

## ACKNOWLEDGMENTS

All open knowledge repositories.





## FORWARD

Dear friends,

The first volume of IMANOFUTU – Imaginary Nation of the Future – was, in fact, a prologue to the series to familiarize the readers with the living environment of Imanofutu in the twenty first century. The main plot of the series starts in twenty second century. The narration of the life of Imanofuteans in the twenty second century is being planned in many volumes. The current volume (Vol. 2) tries to depict the initial days of the presidency of Sugirl (super girl), the first woman president of Imanofutu along with some crucial events happened in the life of Imanofuteans in the beginning of twenty second century.

Warm regards

December 25, 2014

P. Anil Prasad



## 1 THE 22ND CENTURY BEGINS

Twenty Second century presented an extremely different living environment for the Imanofuteans. They had seen the entire day in amber colour. The colour scheme of their days had hypnotized them to be in illusion. Perhaps, it helped them a lot to forget the hazardous changes, which were going on in their environment every day.

The colour scheme of their days, probably, had been a reflection of their amber sky. It was not just the dust that made their sky amber, but some strange chemistry happened to the elements in the atmosphere was also instrumental in that change.

The streets throughout Imanofutu were bordered with abandoned buildings and charred trees. Fearful howling of hurricanes always echoed everywhere in the country.. Hurricanes built sand hills and the patterns of which kept on changing many times a day. No human beings were seen in the lands, as they were all hidden in their underground living (UGL) spaces.

As in the previous century, the daytime temperature had been increasing and the midday temperature crossed sixty degree Celsius at the very beginning of the twenty second century. More than half of the plant and the animal species in Imanofutu had already disappeared when the world celebrated the dawn of twenty second century.

The night living, which was commenced in the middle of twenty first century had become an age old tradition. The younger generation could not believe that once upon a time their ancestors used to work in the daylight. The majority of people even did not know how their days looked, as it was a time for them to sleep in their highly insulated UGL homes\*. Some people even started to fear that one day the earth might burn like the sun, if the temperature would continue to rise.

Amidst the environmental issues, Imanofutu also witnessed a U-turn in its social order wherein it became a female dominated one. Till the first decade of twenty first century, Imanofutu had male dominated societies. The second decade witnessed a terrible increase of atrocities against women as well as the uprising of feminism as a response against the male domination and resultant atrocities. But when the climate change issues became beyond toleration by the fourth decade of twenty first century, the gender egos lost their place in the human behaviour and the Imanofutean society had become a society that offered equal status to women and men. It did not just end there. It further changed into a female dominated society, when men became very lazy and dormant in their UGL living situations. Moreover the widespread cloning had also rewrote the relationship equations between woman and men.

The above changes reflected in the Imanofutean

governance as well. From the last decade of the twenty first century to the beginning of the twenty second century, Humit was the president of Imanofutu. Senators who supported the President in the administration were called Secretaries. Out of the twenty Secretaries of Humit's Administration, eighteen were women.

*\*UGL Homes : homes constructed in the Under Ground Living (UGL) spaces as narrated in the Volume 1 of this series.*

## 2 HUMIT RETIRES FROM POLITICS

In the extremely hot weather, the Imanofuteans' feeling for others was not that much warmer. Still, they liked Humit, who was the president of Imanofutu from the last decade of twenty first century to the beginning of the twenty second century, exceptionally.

Humit's decision to retire from active politics, at the very beginning of the twenty second century, made the Imanofuteans feel disappointed. He was their principal source of inspiration to combat climate change issues from the last quarter of twenty first century to till that day.

Though displeasure over the failure of some arms of government in addressing their grievances was there, every Imanofutean considered Humit as a dear one in their family and a very strong social idol. That kind of attachment to politicians was completely unusual during those days. But Humit won the hearts, because he was extremely different from others in his

vision, energy and passion for serving others. People had also rightly identified that the nation underperformed in many areas not because Humit was incompetent, but because of the lethargy that had been affecting the Imanofuteans generally.

From two thousand and sixties Humit was serving the Imanofuteans as a senator. During the major portion of his many tenures as a senator, Humit chaired the Senators Committee for Science and Technology. Innovations like UGL space and Under Water Living (UWL) space happened only because of his unparalleled leadership.

Humit became eighty when Imanofutu entered into the twenty second century, and he wanted to retire from politics. His health and energy levels even at that age was a wonder for the people, because the average life expectancy of Imanofutu was just sixty years then. Perhaps, it was another strong reason for the Imanofuteans to disagree with his decision to retire from active politics.

Humit's retirement was unacceptable for almost all citizens. Even the leaders and peoples from other countries also wanted Humit to continue as the president of Imanofutu; that much strong was his relations with the leadership of other countries. But Humit wanted to see a young blood in the office of the president right from the beginning of the twenty second century.

### 3 THE PRESIDENTIAL ELECTION

The presidential election of 2103 was also same as all other elections that Imanofuteans had seen since mid-twenty first century. There were only two candidates, suggested by the two fractions of the Imanofutu National Assembly. The single point that the electorate discussed was the capability of the candidates to lead the nation in its combat against the dreadful problems of climate change.

Since outdoor campaigns were impossible because of the horrible climate, the real campaign took place online, mainly through Netizens' Community Networks (NCN). NCN was actually an evolution of the Social Networks of twenty first century. In Imanofutu NCNs were now virtual communities approved by the law, which ensure highly secured individual as well as social virtual living.

From the second decade of twenty first century onwards the political parties, the government and the people in general



were using social media for election campaign. Now it had become the principal mode of campaign, as the NCNs were well structured and legally established communities wherein people spent most of their time. The NCNs were overwhelmed with discussions about the candidates and anticipations from the coming government.

Sugirl was the key attraction during the presidential election in 2103. She was an active social worker of thirty five, who enjoyed the wholehearted support of Humit and his camp in the Imanofutu People's Assembly. Hence, the victory of Sugirl was a definite one.

Through NCNs, people debated and thoroughly examined the competencies of the two nominees.

## 4 THE IMANOFUTEAN WAY OF VOTING

Though not very much interested in politics, Imanofuteans strongly believed that voting was a noting of the public verdict in the history of their national life. They were extremely passionate about becoming the part of that history. Hence amidst all adversities they promptly voted to elect their leaders. The government of Imanofutu was also very keen to provide better facilities for voting.

The prevailing voting system of Imanofutu in 2103 was an innovation during the tenure of Humit as president and later it was adopted by a majority of counties in the world.

It was a completely technology backed online voting system using VHM\*, which was available in all houses and business places in Imanofutu. The voters were identified using biometrics. The VHM had features to read and relate all forms of biometrics.

The conduct of elections in Imanofutu was the mandate of the Citizen Participation Centre of the Government. For this purpose they maintained a comprehensive biometric repository of citizens. It also included detailed analysis of chromosome structure.

When people sat in front of the VHM, the machine could identify them within a fraction of a second. It was cent percent error free and efficient than direct physical verification. Once voter identification was over, the photos of the candidates along with their names would appear on the VHM. The voter had to touch just the name or image. For those with sight problems, the VHM would read the names of the candidates aloud. The voters had to repeat the name of their choice to confirm voting. The persons who were dumb and deaf were allowed to vote with the support of others.

Imanofutu followed an open ballot system. Counting was also done in parallel with the voting. The public could view the number of votes being won by each candidate real time, as in a game show. The announcement of victory was also automatically performed by the VHM network program.

Sugirl won the 2103 election with 98% of polled votes.

*\* VHM – Virtual Healing Machines, invented by Imanofuteans during the twenty first century to provide a virtual experience of healthy, natural surroundings using five dimension media initially and later began to be used for all kinds of online communications and business transactions by adding additional features... details in Imanofutu Volume -1.*

## 5 SUGIRL; A GENETIC WONDER

Human cloning had become a common practice in Imanofutu by mid twenty first century. It did not just end there. Since the effects of the climate changes kept on aggravating each day, the genetic engineers wanted wonders to happen. They tried to determine the qualities that were required in man to sustain in the extreme climatic conditions and develop genes that can produce such qualities through genetic engineering. It would pave the way for laboratory production of the superhuman beings.

For concerted efforts and researches with respect to the development of super humans, the genetic engineers and scientists of Imanofutu together set up a laboratory with the name 'SUPER HUMAN PRODUCTION LAB'.

During the last part of the fifties in the twenty first century,

the genetic engineers of the Super Human Production Lab were able to prove theoretically that laboratory development of superhuman beings was possible. They successfully decoded the entire genetic secrets and produced artificial genetic elements.

After numberless failures, the genetic engineers came out triumphant in their endeavours to develop a baby using artificial genetic elements in an artificial womb in the 'SUPER HUMAN PRODUCTION LAB' in two thousand and sixty nine. Sugirl was that child!

The establishment of 'SUPER HUMAN PRODUCTION LAB' and its functioning were made possible by the timely support and guidance of Humit, who was the then Chairman of the Scientific Committee of Imanofutu House of Senate. When Humann, the director of the lab declared the birth of a super girl, Humit named her as Sugirl, acronym for super girl, and later adopted her as his daughter.

Since Humit was well aware of the life and mental crisis of Reona, the first cloned child of Imanofutu, he took extra care to prevent Sugirl from falling into the same mental crisis. In Sugirl's case, everything was under control and very positive, because her characters were carefully handpicked ones by the scientists and engineers.

## 6 AN AMAZING SUGIRL

Sugirl was a human being with awesome features and characters. Till twenty first century Imanofutu was well known for its very healthy and beautiful women and handsome men who were looked at by the entire world with jealous eyes and heard with equally jealousy ears. When the environmental issues aggravated beyond control Imanofutu lost that glorious position. Now the genetic engineers successfully recreated it in Sugirl along with many other higher order features.

Her skin could absorb heat up to ninety degree Celsius without being affected. The absorbed heat was converted to energy gel, which performed the same function of fat in ordinary human beings.

The blood looked like water, and eyes were really sparkling. Her analytical ability and memory capacity were beyond imagination. It was very apparent even from the initial months of her laboratory birth. She began to speak the Imana\* language from the second month of her birth onwards.

Her hair was reddish brown and the body colour was light rose. She smiled very sweetly in a way that Imanofuteans never witnessed before. She was affectionate but fearless.

She was physically very strong and emotionally well balanced. Her body features reflected the old glory of Imanofuteans as the world's most beautiful women and handsome men. Her voice was rhythmic and conversation style very much endeared. When turned to teenage, her beauty was termed as 'electric' in the NCN discussions.

As an individual she showed high degrees of empathy for others. She was always ready to serve others and worked for long hours every day. All other qualities expected from an ideal person was abundantly present in her character.

*\*Imana: Language of Imanofutu*

## 7 SUGIRL AS A STUDENT

After her laboratory birth, the scientific community was anxiously waiting to see the learning interests of Sugirl. From the initial months onwards she was found to be too much attracted to the earlier natural scenes displayed in the VHM. She could sit absorbed before the visuals for many hours together.

When she was two years old, the scientists declared that she was ready for formal learning. As she grew up, with much amazement, the scientific community observed that her learning interests were turning towards botany. At the age of twelve, Sugirl acquired competencies in research studies and Humit took her to the Imanofutu Botanical Research Corporation. It was a time when the Imanofuteans had seen how their administrative systems fail to respond effectively to the



aggregating environmental issues. They also witnessed the consequent breakdown of all social and scientific systems one by one before the fearful anger of the Nature. But Sugirl remained calm, cool and confident.

At the age of nineteen, Sugirl took over the leadership of the Climate Innovation Unit of Imanofutu Botanical Research Corporation. It was at the same time, the Imanofutu had realized that mitigation measures to environmental problems were becoming absolutely impossible and the end of everything would be not far away, if natural adaptation could not be developed.

At the Climate Innovation Unit, Sugirl made the genetic engineers to make the impossible possible by artificially speeding up the adaptation capabilities in the plants. Sugirl and her team wanted to develop plants that literally absorb the heat waves that had been hitting the Earth. She sought the support of 'Super Human Development Lab', which was a parent organization for her in all sense, in her endeavours. She wanted to depict the technology behind her creation to the plans, in fact.

By the beginning of the last decade of twenty first century, the Imanofutu Botanical Research Corporation had developed fifty five plant types that can sustain in an atmospheric temperature up to hundred and ten degree Celsius. Almost at the same time Sugirl provided consultative support to the Imanofutu Bio-Engineers Company to develop a 'heat resistant skin formation in embryos procedure' which triggered the development of heat resistant skin that can withstand temperatures up to seventy degree Celsius in human embryos.

Sugirl enjoyed the strong support of Humit in all her innovative approaches.

## 8 SUGIRL IN POLITICS

When Humit became president of Imanofutu in two thousand and ninety, he wanted Sugirl's support to organize his official duties. He instructed her to do it without disturbing her ongoing research works. Thus her working hours increased from fourteen to twenty. She used to sleep for three hours only.

Sugirl used to work in the laboratory during the day time, which was the sleeping time for Imanofuteans from the mid twenty first century onwards. Late in the evenings she joined her father at his office, which was actually the early hours of official business then.

It was actually an eye-opener to both of them on the amazing working natures of both. The huge number and wide range of problems that Humit handled each day with amazing efficiency

was a real wonder for her. Similarly Humit's joy did not find any boundary when he witnessed the extraordinary analytical abilities and empathy towards people that Sugirl demonstrated.

Sugirl could very easily engage in whatever field that offered her scope for innovations. In the fast changing socio-economic-political environment of Imanofutu, Sugirl identified many areas which desperately needed innovations. Thus, quite naturally she got attracted in politics and began to allot more and more time for helping her father.

Eventually, by the beginning of the twenty second century, she had become a naturally seasoned politician.

## 9 SWARING IN AS PRESIDENT

Charm of ceremonies was a myth for Imanofuteans then. Under the compulsions of various adversities created by climate change, there was an official ban for gathering of more than hundred people. It was a criterion from the regime to cut health risk as well as to ensure moderate use of resources that were practiced to protect people from the extreme climate conditions, especially in UGL spaces. Rather than a rule, people cultivated a culture in which they really disliked to gather large crowds.

Subsequently, it became the era of online ceremonies. Official as well as private ceremonies were organized online using the advanced VHM facilities. For the initial few years people showed much interest in virtual ceremonies and later the enthusiasm dropped substantially.

The permission to organize on the ground gatherings were only at seashores and that also between 11AM to 3 PM when the atmospheric temperature used to reach a minimum of forty degree Celsius.

Sugirl honestly wanted to have enthusiastic participation of Imanofuteans in the swearing in ceremony. It was not because she wanted popularity, but it was to ensure public participation in governance from the starting point of her presidency. She was well aware of the challenges she had to face and the need for public solidarity to confront them successfully.

Humit was also supportive of her idea. The proactive team in the camp of Humit worked with much enthusiasm and as a result the swearing in ceremony of Sugirl had become the most virtually participated ceremonies in the country after mid twenty first century. More than ninety percent of the VHMs in the country had been tuned to the event.

It was not a swearing in ceremony alone. Immediately after the swearing in, where in the chairman of the Imanofutu House of Senate administered oath of office to Sugirl, she conducted a very lively interaction with people. The interaction lasted for more than two hours. In her closing words, Sugirl promised to hold weekly interactions with the people of Imanofutu.

## 10 THE SMOOTH CHANGE OF GUARD

The change of guard of Imanofutu administration from Humit to Sugirl was very smooth as both of them were already working together.

The swearing in was organized in the ceremony hall of the House of Senate in the central UGL space in the Imacifutu, the capital city of Imanofutu, from where it was live streamed through VHM network. Instantly afterwards the ceremony and the interaction with people, Sugirl followed by Humit, went to the president's office cluster in the UGL space, which situated very next to the House of Senate.

In the chamber of the president Humit said Sugirl:

“ My child, I will leave you alone here right now. You needn't keep any legacy when you find changes are necessary. Only

when we take the principal responsibility to do something, we will be able to see that things can be done more effectively in different ways”

After saying above words Humit kissed Sugirl on her forehead and said “See you at home in the morning”.

Though Sugirl was very familiar with the president's office and the staff members there, she felt a vacuum for a few seconds when Humit went out of the chamber.

She sat in the cabin alone for a few minutes as in meditation and then resumed her regular pace of doing things. At this moment she got a list through VHM communication system, from the core group of the fraction of the senators whom she and her father represented, that contained names of senators who were nominated as Government Secretaries. She found the list perfectly matching to her plans.

## 11 HIGH-TEMPERATURE AND NANO FARMING; THE FIRST ANNOUNCEMENT FROM THE PRESIDENT

Every matter that came before the President were very important and demanded top priority over the rest. Sugirl decided to begin with the topic of addressing food scarcity.

From the latter half of the twenty first century, all regions in the world began to witness food crisis. It had become dangerously intense by the start of twenty second century. The situation in Imanofutu was also not different. The main reason for that situation was the forced halt of normal farming almost completely by the climate related issues. Thereafter the Imanofuteans lived majorly on artificial nutrition tablets, which in turn created innumerable health issues.



Earlier under the research leadership of Sugirl, the Imanofutu Botanical Research Corporation had successfully developed a high-temperature-farming technology that used genetically reengineered plants, which can sustain in atmospheric temperature up to hundred and ten degrees Celsius. The genetically reengineered plants included their popular cereals and other crops. Such plants could also survive using the sea water. To support these farming experiments, the Imanofutu Robotics company had developed a robot-farmers to work in the open fields during the daytime.

Along with the above, the IBRC had also developed a nano-farming technology with plants that require no sunlight at all and can be grown inside the rooms of UGL homes. A six square meter tray full of cultivation could yield sufficient quantities of cereals for a person to eat for one month. From the germination of seeds to reap, it took only three weeks. It meant a shelf having two such cultivation trays would provide food for a person throughout the year.

The first decision of Sugirl as the president of Imanofutu was the nationwide rollout of both the farming technologies with immediate effect. The decision was taken after a brief VHM meeting with the scientists, officials and industrialists concerned.

## 12 A REVOLUTIONARY DECISION ON FLYING SAUCER TECHNOLOGY

The second meeting that Sugirl had on her first day of presidency was with the transport and Imanofutu Aviation Research Organization officials. Since the average daytime temperature was above sixty degree Celsius, travel during the day time was generally discouraged by practice as well as law. In the case of people who were required to cover long distances, only possibility had been air transport. But air transport had reached a complete halt during seventies in the twenty first century because of the deadly hurricanes, which become frequent along with lightning and thunder.

A lot of experiments were carried out on the structure as well as technology of air transport vehicles to overcome the problem. Though some of the modifications in the aircrafts were able to produce a visible reduction in the risk factor in

flying through the mad winds, deadly lightning and thunder, the majority of experiments met with fatal failures. Imanofutu had also witnessed widespread agitation over that matter.

When UGL space living had become a reality, the government tried its level best to connect the UGL clusters using tube rails. But it served only for travels within a ten kilometre diameter from the central part of each UGL cluster. There were no tube rail connectivity between UGL clusters. Fortunately VHM's and NCN's together saved the UGL clusters from becoming separate islands, at least virtually.

During that time NASA had successfully begun to use saucer shaped spacecraft. It had made the Imanofutean aircraft engineers to think about saucer shaped aircrafts. Then Humit was the president. He encouraged them to proceed with the project. At last, in two thousand and ninety eight, the Imanofutu Aviation Research Organization (IARO) came out successful in developing a saucer shaped aircraft that can withstand hurricane and deadly lightning. Subsequently the IARO manufactured a dozen such aircrafts for the Imanofutean Air Force as a pilot project before the mass production. Thus the saucer shaped aircrafts become a part of the air force in two thousand and ninety nine.

Now Sugirl reviewed the performance of the saucer shaped aircrafts. The CEO of IARO told the president:

“Now we are confident that we can go for mass production. Since we are the first country who succeed in it, we can take IPR for the technology. It will place us on top of aircraft manufacturing for many centuries to come”

After remaining silent for a few minutes Sugirl said:

“Friends, I understand the enthusiasm, capabilities and the loyalty of you and your team. We also have to recognize the truth that that we actually built the saucer aircraft on the toil of many scientists across the world. Especially we have to be grateful to NASA for sharing the technology of saucer shaped spaceships. Therefore, I think that the best way to express our gratitude to all the scientists, technical people and policy makers around the world who provided wholehearted supports to make it a reality, and built steps for us to climb to this victory, would be releasing the technology in the open domain. We are a people who suffered a lot from the reckless industrialization, the reluctances of it to share knowledge and experience had caused over exploitation of nature and the consequent deadly environmental problems. We don’t want it to repeat. Therefore, we will share it open”

Everybody remained silent when Sugirl paused her talk. After a few seconds she continued: “what would have been the destiny of mankind if the peoples who discovered or identified fire and the wheel had taken IPR for it and prevented others from freely using it?” – at that time everybody applauded her loudly.

“I hope you will stand with me in taking this very crucial decision” – when Sugirl said that, the audience responded with a loud ‘YES’.

## 13 ADAPTATION

The very next day Sugirl visited the Imanofutu Genetic Engineering Lab (IGEL) to review the progress in developing genetically programmable adaptation techniques.

The life of Imanofuteans in the twenty second century was an equal mix of hope and desperations. It was the story of an inch to inch fight with the mounting adversities in the nature. The combat against environmental problems had become a routine for Imanofuteans.

The frantic efforts for finding hide outs for all the Imanofuteans from the fury of nature were not a complete success in the twenty first century. It was during that time Humit promoted the idea of adaptation.

After heat, the next dreadful challenge before the Imanofuteans was the shortage of water. Ninety percentages of their rivers and freshwater lakes had dried away in the twenty first century itself. They had to live with less than two hundred millilitres of water a day! Bathing in water had become a history

in the twenty first century itself. Now bathing had become a strange word in their dictionary and disappeared from their vocabulary. Ironically, drinking of more water began to create health issues, since their body mechanisms had changed to sustain with a small quantity of water.

Though genetic engineers had succeeded in laboratory production of human beings who can withstand extreme climate conditions, the IGEL's researches were aimed at using programmable genetic techniques for triggering adaptation capabilities in the existing population.

During the discussions at the IGEL, many conflicting thoughts were passing through the mind of Sugirl. In the first place, though she was pushing programmable genetic techniques, Sugirl was very keen in taking forward her father's idea of getting people face the adversities and develop adaptation abilities naturally. Because she knew that only it would sustain.

Another thought that Sugirl nurtured was actually about herself. She was well aware of her origin and scientifically embedded adaptation abilities. "Will my descendants get the same or enhanced abilities genetically transferred to them?" – she used to ask herself.

## 14 A SPACE EMERGENCY

It was the third day of Sugirl's presidency. At 12.17 PM, the control room of the National Space Agency was immediately put in the highest of the alert levels.

The trajectory of a gigantic asteroid was analysed to be dangerous to the earth by NASA. That day it was confirmed that, if ever the asteroid would hit the earth, it would be somewhere around the middle of Imanofutu. The calculated time of hit was 24506 hours, twenty one minutes, five seconds and eight Milli seconds. Though there was around three year time, in terms of inventing a mitigation measure, it was a critical time. The space agency requested an emergency meeting under the chairmanship of the president.

It was in the midst of the regular two hour sleep of Sugirl that her private secretary received the emergency message. Initially the PS doubted for a few moments on whether she would awake the president or not. However, by considering the importance of the matter, she awoke Sugirl.

The amazing quality of Sugirl was that she always awoke afresh from sleep; she never required settling time. Sugirl called the CEO of the Space Agency and intimated her that she would arrive in ten minutes for the proposed meeting.

The CEO had arranged the meeting in a war footing. By the time the president arrived at the agency, twenty scientists were present in the emergency meeting room. Since everybody was well aware of the emerging situation, the meeting commenced without introductions and entered into the crux of the subject in no time.

The 'asteroid mission unit' showed the live video of the asteroid and explained the technical details they collected. The asteroid was of massive size and even its entry into the atmosphere would cause drastic environmental problems that one cannot even imagine. Its hitting on the earth's surface would be like a nuclear explosion. While the meeting was progressing, Sugirl got hotline calls from the heads of at least five major nations and they promised all supports and collaborative efforts.

The space agency had earlier developed a successful prototype for absorbing kinetic energy. They named it as a Kinetic Energy Arresting System (KEAS). Since the asteroid was of massive in size, the KEAS would be of little help. Another option was to destroy the asteroid part by part at a safer location in the space, but it would mean spoiling the serenity of the space.

Destroying the asteroid was an achievable task for the Space as well as Nuclear Agencies. Many other countries in the world were also having effective systems for that. But the question "what would happen after the explosion?" was not answered satisfactorily by any one.



The meeting had decided to form a consortium with the five countries that already offered to support the mission and proceed in a war footing. Sugirl herself started the mission by calling back the heads of the above five countries and discussing the possibilities. All of them agreed in principle to sign a pact. The final decision would be communicated by all of them in a day's time after internal consultations. She told the scientific community gathered there that: "Now each second is very crucial to us. Perhaps we are not in a position to lose even a microsecond without tangible result. I am confident that you will work like that, still my anxieties compel me to remind it again. I'll be in contact with you all round the clock. Within twenty four hours we will be having a consortium of the five nations to work on this issue".

The headquarters of the space agency was just one kilometer away from the president's office in the UGL space. While walking back to the office through the UGL walkways that were well lit using solar powered lamps, she was thinking how each microsecond can be used to yield results as she told the scientists. Back in the office, she asked her technical team to set up a VHM in his office exclusively to connect with the space agency on the asteroid mission.

## 15 AN EMERGENCY VHM MEETING OF THE HEADS OF NATIONS

Going out of Imanofutu over the seas and mountains was quite impossible as there was no air transportation in Imanofutu during those days. Therefore, from the mid-twenty first century onwards the presidents, the secretaries and other official met their foreign counterparts only through VHM conferencing.

On the very next day after the possible dangers from the asteroid was reported, Sugirl convened a meeting of the heads of five nations using the VHM facility. Top space and nuclear scientists from Imanofutu and those nations were also participating. First agenda item of the meeting was a review of the latest information on the asteroid. It was followed by a discussion and finalization of the collaboration agreement on the 'asteroid mission'.

At the meeting one thing became very clear that, even in the absence of a formal collaboration agreement, the space agencies of all the five nations had already begun to work together as they correctly identified the approaching asteroid as a global danger.

The scientists and other experts made it very clear that they would not let even a millisecond to go without providing some advancement in the asteroid mission.

The meeting, which lasted for more than four hours, had discussed the case in minute details. Everyone felt that multiple technologies and strategies would be required to tackle the threat. The scientists presented the possibility of conducting a series of controlled explosions on the asteroid to reduce its size and arresting the velocity of scattering particles using a variant of aerodynamic arresting technology. Later, those particles had to be cleared off the space as well. For that, possibilities of depositing it in the moon had to be explored. However, it was very clear to everybody that a lot of researches and tremendous amount of efforts and resources had to be put in to make some good thing happen in that direction. Therefore, the heads also requested other nations to join the mission.

## 16 VIRUSES AGAIN!

On the fifth day after Sugirl had sworn in as President, a health emergency was reported in the afternoon, when the majority of people were fast asleep in their UGL space homes.

For the last three decades, Imanofutu was almost free from viral diseases as the environment was not congenial for the viruses to thrive. But now, a deadly virus attack was reported from one of the UGL spaces in a prime location. The infected, an elderly man, was admitted to the UGL hospital, which was run by the Imanofutu Micro Biology Institute.

In the absence of virus diseases for many decades, the systems for responding to virus attacks were not that much prompt. It created some initial chaos. However the 'Imanofutu Microbiology Institute', in virtual consultation with experts from other parts of the country, was able to finalize the treatment protocol and mobilize medicine within forty five minutes.

It was the mutated version of a virus that had been causing a kind of fever some fifty years ago. When the average

atmospheric temperature crossed fifty degree Celsius in 2060, that fever was disappeared. Now it had become a matter of high speculation on where that virus remained dormant and how did it now become active in the UGL space now?

The mutated version of the fever virus was many fold dangerous than the older ones. It was discovered that the virus caused dissolving of cells in the areas where it concentrated. Unlike earlier viruses, it did not show any locality specific attack. The presence of the virus was traced beneath the muscle, in blood and in the intestine of the infected. It was a real medical emergency.

The scientists and doctors knew the dangers of spreading virus diseases in the UGL space. As UGL spaces were closed ones, the intensity, spread and the longevity of the attacks would be very high.

While her health advisor brought the news, Sugirl was sitting before the VHM installed in her office exclusively for comet watching. She immediately recognized the dangers in the event of a spread of the disease. In no time she connected the Microbiology Institute.

Fortunately, the virus attack was reported from only one UGL space. Therefore, Sugirl ordered immediate quarantine measures at all other UGL spaces and a detailed enquiry on the causes of this medical incident.

The investigations of around eighteen hours revealed that the virus spread into the UGL space through a crack in its outer concrete wall. The investigators drilled the wall and continued their examination. They found out the remaining of a dead body just outside the concrete wall and sent it to the laboratory. It was

the body of a man died of virus disease, some sixty years ago. The virus remained there dormant in the dead body all those years. When the remaining of the body got contact with the normal living situations through the crack on the wall, the virus in got activated and subsequently mutated.

The medical emergency team sealed the location and the engineers in specially insulated suits have removed and burnt the remaining of the dead body in very high temperature, sterilized the area, and decided to keep the area under observation for three weeks.

## 17 A NETWORK DISASTER

Since people had begun to have a real life in the cyberspace, the network problems had been taken as a very serious day to day life issue. The problems that had been caused by ever increasing heat were a blow to the social systems already weakened by other climate change related issues.

Sugirl took charge during a time when the deadly passage of a heat wave through the central part of Imacifutu was forecasted. That time the wave was originated from the sun. Since the last quarter of twenty first century the entire world was facing the threat of heatwaves. There were frequent heat waves coming from the space through the breakages in the ozone layer as well as waves that were being formed in the atmosphere of the earth itself. Though the scientific community of Imanofutu was able to successfully develop protocols that could predict the arrival of deadly heat waves, the mitigation measures were yet to be developed.

Generally the effects of the heat waves lasted for two weeks. During such days, even the midnight temperature was used to be above fifty degree Celsius. Rather than heat, the increased presence of harmful radiations were the real threat.

Therefore, the authorities used to ensure that all people remain inside the insulated UGL homes during the heat waves. Moreover the heat waves were also used to damage the communication networks.

It was the beginning of the sixth day of Sugirl's presidency. The predicted heat wave reached accurately, but the effects of it were many fold stronger than what was predicted. Almost all communication networks were disturbed and a few of them came to an absolute halt. The deadliest among it was the complete halt of VHM Network. Within the first three hours of its halt itself people began to protest violently in the streets of UGL spaces. It was also an indication on how much they were depended on VHM.

In the meantime Sugirl convened many meetings to sort out the issue. First one was a one to one meeting with her communications secretary. The communications secretary told her that the situation was graver than what anticipated. The satellite they used for VHM networking was fatally damaged during the heat wave. Subsequently, they together called a technical meeting of telecommunication and space scientists and engineers.

The telecom scientific community had categorized the telecommunication issues being caused by the heatwaves into three. The first one was the issues with the satellite, second was the effects on the ground station equipment, the third one was its effects on the telecommunication waves both in the space as well as in the atmosphere of the earth.

The scientists told the president that the space was not a gentle and cool place now. The space was full of small pieces of matter and various kinds of radiations. The deadly heat wave that passed through the orbit of the VHM satellite in the space had polarized the small particles as well as intensified the radiations. As a result the materials used to build satellites and



its parts had been seriously affected by the changes occurred in the space.

The deadliest among the problems was the dielectric charging of insulators used in the satellite, wherein insulators themselves began to produce an electric charge as well as conducting electricity. It caused fatal short circuits and damage to the satellite. The same thing with a different magnitude had happened to the earth-station equipment as well. The heat wave also caused unwanted and unpredictable frequency changes, signal absorption and bandwidth decoherence in other networks.

The proposed immediate solution was to get the VHM satellite services of a friendly nation on lease. The Imanofutu Space Agency was building another advanced VHM satellite. The meeting had decided to speed up its works so that the satellite would be ready for launching within eight months. As a sustainable solution, it had also been decided to speed up the experiments to develop materials and transmission methods that would not be affected by heat wave related issues.

Sugirl authorized the communications secretary to finalize the satellite leasing in twenty four hours.

## 18 IS MAN ALONE IN THE UNIVERSE?

From the day on which the asteroid emergency had been reported, Sugirl had become a regular visitor of Imanofutu Space Agency. Even though she had all the facilities at her home and office for the real-time monitoring of the asteroid mission, she was very particular in visiting the asteroid mission control room of the agency every day. Perhaps, it might be her anxiety over the fate of the mission that made her keep in touch with the space agency throughout the day. However, her regular visits provided additional positive energy to all those involved in the mission.

The Imanofutu Space Agency had a wonderful mission management system, wherein the mission groups that were having common interests, those which can supplement or complement the efforts of others etc. were connected perfectly based on the needs. Special care was also taken to ensure that emergencies, being developed in one mission group did not affect the research environment of other mission groups those were not stakeholders of such emergencies.

After the asteroid mission unit, the unit that attracted much attention of the president was the alien research mission. Ms. Arien, a very serious looking woman of thirty three, was the leader of the Aliens Research Mission and she cherished high hopes that before so long she would be able to meet with some alien friends. She also used to write blogs containing very interesting hypothesizes in support of her dream. Sugirl was one of her regular blog readers.

The anticipation of extraterrestrial life was, perhaps, as old as the existence of human beings. Though the scientific communities all over the world were not able to collect any concrete evidence for establishing the existence of aliens, it was generally approved that, because of the vast size and consistent physical laws of the observable universe, it would be improbable for life not to exist somewhere other than Earth.

Another thing connected to Aliens was the stories of flying saucers. It was generally believed that aliens travel in saucer shaped flying objects. A lot of unverified reports came from various parts of the world with respect to the appearance of flying saucers. The world's interest on this topic had even resulted in the development a stream of study on 'Unidentified Flying Objects (UFO)'. The term UFO was officially coined by the US Air Force during mid twenty century.

Many countries, including Imanofutu had initiated investigations into the reports of flying saucers. But none of those investigations were able to have any concrete findings.

On the latter half of the sixth day, after a review of the comet mission, Sugirl quite unexpectedly called on Arien in her office. She really startled when Sugirl entered her cabin.

Sugirl and Arien started their primary education together. They were best friends in the virtual as well as conventional class rooms. From the last decade of twenty first century, substantial time of primary education was also conducted virtually with occasional classroom teaching. The parents and other older people in the families were trained to support the virtual education of the children. However, since Sugirl kept on jumping more than two grades every year, their studying together lasted for one year only. Still Sugirl was always very keen to maintain their friendship.

“My friend, I thought I should check with you whether there is any possibility to get an alien for my office support” – Surgirl cracked a joke with her usual smile.

“Definitely, Ma’am President, before so long” – they laughed aloud while hugging.

Arien revealed to Sugirl the information about some strange signals that Imanofutu’s outer space station had recorded. Her unit was analysing it then and hoped to get some lead. Sugirl carefully listened to the conversation of Arien as a child who hears some fairy tales.

While leaving from the space agency Sugirl told Arien “I strongly believe that if ever we could locate aliens, it would be a breakthrough in identifying alternative living place in the space”.

## 19 FIRST WEEKLY VHM INTERACTION OF THE PRESIDENT

As promised in her first day of presidency, Sugirl scheduled her first weekly interaction with the people using VHM. She decided that each weekly interaction should be based on a core topic. Initially she thought to talk about the asteroid issue. But immediately she sensed that it might spread panic. Later she decided to talk about healthcare as it being a topic in which Imanofuteans were much concerned.

As part of preparations for the same, Sugirl had a detailed discussion on the various aspects of health care in Imanofutu with Dr. Doctrima, the CEO Physician at Imanofutu National Healthcare Centre, the premier healthcare institution of Imanofutu. The CEO was in her early forties and a close friend of Sugirl. At some point of time during Sugirl's researches at the Imanofutu Botanical Research Institute, they worked together for three months as part of a mandatory integrated study. From that time onwards they maintained a very intimate relation.

When Sugirl became the president of Imanofutu, Doctrina was given the additional role as President's Advisor for Healthcare Sector.

On the interaction day, before starting the discussion formally, Sugirl and Doctrina had panned through the hospital surveillance control console, which provided live visuals from various hospitals in Imanofutu. Imanofutu had a well-connected health care system. Perhaps, healthcare one of the sectors in Imanofutu that explored the possibilities of IT to the maximum extent possible.

First level patient diagnosis in all the hospitals was completely automated. While sitting in the diagnosing lounges of hospitals, the patients could hardly recognize the very fast diagnosing process. Patients would be requested to sit in very comfortable diagnostic chairs. They would also be provided with a digital book reader or a movie spectacle. Movie spectacles were movie loaded special but very simple equipment which would create wide screen movie visuals just in front of the eyes of those who wore it. Before you complete a part of your reading or viewing the movie, your initial diagnoses would be over and the results of which would have been sent to a doctor concerned. Immediately after that the diagnostic chair will function as a battery car and take you to your doctor.

Health care was mostly technology driven with very minimal human intervention during those days. But the greatest worry of Sugirl, like her father, was the inability of people to adapt the changes.

During the last part of the twenty first century and in the beginning of the twenty second century, adaptation of natural changes by the people of Imanofutu was not purely natural one.

It was partially forced and hence it produced adverse effects in the form of reduced life span of internal organs.

Since people lived with very minimal intake of water even at an exorbitant temperature in the atmosphere, quite naturally, blood was not that splendid in human body as it used to be before. The normal body temperature was also doubled than a century before. As a result, blood transfusion for rejuvenating various organs had become a routine item in the treatment protocol. It triggered researches in the direction of artificial blood production and as in many areas Imanofuteans came out victorious in the large scale production of artificial blood first time in the history of the world.

Artificial blood became a common commodity, followed by the availability of laboratory grown substitute for almost all internal organs of human beings. In the laboratories the organs were developed using stem cells.

Technology for joining nerves with precision and easily had also been developed, which made neurology very popular and easily accessible branch of medicine. Scientific papers started to state that brain transplantation was no more a distant dream.

Even at the top of these much innovations, Sugirl felt very sad because of that fact that adaptation in a natural way was not yet a success, which was essential to existence. Therefore Sugirl decided to give thrust to adaptation in her weekly interaction.

## 20 A BEAUTIFUL SUNDAY

It was the first Sunday after Sugirl became the president of Imanofutu. More than that it was the first holiday in her life since she started higher education. During her entire higher education, including research time, she spent all Sundays to support her father in his office works.

Now she wanted to spend her first Sunday as president at home along with her father. For Humit too it was the first non-working Sunday after many decades!

That day Sugirl woke up only at 6.30 pm. She slept more than usual that day. Normally she used to sleep for three hours starting from twelve noon. When she came to the living room Humit was sitting before the VHM.

“Good morning papa”

“Good morning my dear. You slept more than common. Good! You needed it, really”



“Yes, papa, I was also thinking like that” saying that she sat near Humit and kissed him.

“What’re you watching papa?”

“Raining outside... sorry overhead” – he smiled. Sugirl peeped at the VHM screen over the shoulder of her father and said:

“Oh my god, it’s very thick...look at the dark brown raindrops...seems to be more acidic than usual” – watching the VHM Sugirl said.

“I also fear so. Let’s hope nobody remains in the open”

From two thousand and thirty onwards Imanofutu had acid rains owing to the fearful environment pollution caused by reckless industrialization. Every rain was an acid rain for the first few hours, in fact. Therefore, people who once rejoiced at the arrival of rain, had now been warned of acid burns and advised to confine themselves under the roofs.

“Well, how was the first week as President?” – Humit continued the conversation.

“Problematic, but at the same time challenging and quite interesting”

“I’m very confident of you. That’s why I was able to sleep peacefully during the entire week”

The entire day they spent together talking about a lot of issues and discussing her plans as the president. Her father was always a wonder for Sugirl. Each time he had either a wonderful idea or an un-heard experience to share. Apart from all above, she always adored his strong features and healthy ways of living. He was very strong and capable even at the age of eighty,

meanwhile the average life expectancy of Imanofutu was only sixty.

Sugirl was well aware of her origin. His character and features were ones that carefully handpicked by genetic engineers. She really believed that the natural origin of his father was stronger in many aspects than her artificial origin. It was her father's life that encouraged Sugirl to become a very strong advocate of adaptation.

## 21 REJUVENATED INDUSTRY

Sugirl started her second week with an informal meeting of the prominent industrialists. Forty eight industrialists from various parts of the country gathered at the seashore of Imacifutu at 11pm that day; an open-air meeting for opening up the minds. During those days, open air meetings were conducted only near midnight in the seashores when the temperature in the atmosphere would be minimized as well as the wind from the sea would be an added advantage.

The nearest tube rail station was one kilometre away from the seashore. Sugirl and her secretary hopped down at that station and took the elevator to the surface and walked the remaining distance to the seashore. She always loved to walk. “When we walk, we save ours as well as nature’s health” – she used to tell people.

On the previous day of her swearing in, among many things she discussed with her father, the going out president, she also discussed the strategies to be adopted in guiding the Imanofutean Industries. By the mid-twenty first century

Imanofutu witnessed the complete fall of Industry because of a series of issues relating to climate change. Under Hamit's presidency the industry in Imanofutu began to be got rejuvenated. He popularized the UGL as well as UWL (Under Water Living) space building technologies in other countries which were also suffering from environmental issues. It brought in tremendous overseas opportunities to Imanofutean companies.

Scientists, engineers and industrialists from Imanofutu moved across the world for building UGL and UWL spaces. Thus Imanofutu became the sole technology partner for the world to save their people during the day time from the angry sun. Imanofutean standards for building and maintaining UGL and UWL spaces had become the world standards. Similarly the UGL and UWL living principles of Imanofutu had become the order of the world.

Through the UGL and UWL technologies and very calculated involvements, Humit was able to place Imanofutu at the top of industry map of the world again, a place that Imanofutu adored earlier in the twentieth century.

It was a second birth for the industry; a rebirth from the ashes. None of those who lost business during the mid-twenty first century had imagined, even in their wildest dreams that industry, with its old glory, would come to the frontier of life again.

Now Sugirl wanted to take it forward further. In the informal meeting on that day she requested the Industrialists to think in a different dimension by viewing industry as a for-profit social service. The services of the industry were highly essential for the lives to go ahead. She requested the industrialists to

develop business on social entrepreneurship models. There would be no objection to them acquiring profit for managing the industry, livelihood as well as its further development with social as well as environmental commitments. They should uphold high degrees of ethics and follow strict standard to make industry acceptable to people in general again.

Sugirl also shared her dreams about a deepwater mass-transit system with the Industrialists for a brainstorming. The industrialists heard her words with much curiosity and responded very positively. The past had taught them also the need for environment and people friendly industrial strategies. A lot of innovative ideas were also aired in the conversations.

Before seeing off the president at the conclusion of the meeting, all of those who gathered there shared their anxiety over the fast approaching asteroid danger also. At that, Sugirl promised them “the world will win the mission and no harm would happen because of the asteroid.”

## 22 SUGIRL'S DREAMS ABOUT A DEEP WATER MASS-TRANSIT SYSTEM

From the latter half of twenty first century, because of mounting environmental as well as related socio-economic issues, transportation continued to be an unsolvable issue for Imanofutean governments. During the same time, finding that expansion of road networks really meant the forceful creation of desert land, the central and the provincial governments of Imanofutu had to suspend all expansion plans of their road networks and explore the possibilities of other kinds of mass transit systems. When UGL space had become very common, the tube rail networks were expanded substantially. But it had many limitations. Especially giving access to UWL space was considered to be a very dangerous and hence never attempted. Because, if something would go wrong with the valves that open to the seas, it could affect the entire UGL system.

Under Water homes with doors open to the seas and people embarking some kinds of underwater vehicles from their doorsteps had always been there in the imaginations of Sugirl.

In the existing system, people had to reach as well as leave the UWL facilities using tubular lifts that operate between sea surface and the UWL facilities.

While reviewing the defence systems of the country during the first week of her presidency, Sugirl realized that the indigenously developed technology for building atomic powered submarines was ripe enough for large scale production. From that moment onwards Sugirl began to dream about establishing a submarine transport network connecting the underwater living spaces.

“Ma’am President, I understand that the nutshell of your proposal is to run submarines as mass-transit vehicles connecting the UWL spaces spread across our seas” – the CEO of the Imanofutu Underwater Tourism Industry Consortium told while Sugirl shared her dreams on deep water mass-transit system.

“Precisely! If you people are ready to develop a pilot plan, I can mobilize five submarines of greater passenger capacity from our army for implementing the pilot plan” – when Sugirl announced this offer, the audience welcomed it with a loud applause.

## 23 SUGIRL'S DREAM SPEECH AT THE SAPACE AGENCY

Twenty first century witnessed revolutionary changes in the human habitat building in the underground through the 'UGL Space' and under water through 'UWL space' strives of Imanofutu. Now Sugirl's attention was highly focused on the Space form the initial days of her presidency onwards because of the asteroid emergency. That kind of continuous engagement had made her also look at the 'Space' with much hope for habitat building. She started to nurture the dream of 'Imanofutu's own Space Habitat'. It was during that time she was invited to the dream speech at the Imanofutu Space Agency.

For more than six decades, the Imanofutu Space Agency had been organizing yearly dream speeches by the Presidents of Imanofutu in which they shared their dreams on the further developments in the space science as well as space exploration. It also helped the agency to ensure enhanced support from the top executive of the country to their space exploration initiatives.



After the Imanofutu space agency had shifted its labs and conference facilities to the Under Water laboratory complex in the eastern sea of Imanofutu, dream speeches had been delivered at the conference hall with transparent glass walls that was projected into the sea from the main module. It looked like an underwater aquarium.

That time it was Sugirl's first opportunity and she selected the topic of establishing 'Imanofutu's own Mars Village'. Since all the countries in the world were facing environmental issues with lesser or greater intensities, most of them were in search of alternative living places in the space.

By that time, space colony had become a regular thing. The colonization of space had started in the twenty first century itself. It commenced with a lot of countries setting up space stations for scientific purposes. To reduce expenses and enhance the effectiveness through collaboration, friendly nations or nations having strong space research collaboration agreements began either to collaboratively set up space stations or setting own stations near to that of the collaborating nations and connect one another. It resulted in the formation of space station clusters. Consequently, those formations had become a space colony of scientists. Later, the scope of such stations outgrew the scientific requirements of space tourism.

In two thousand and ninety eight, Imanofutu along with five other nations had formed an Interplanetary International Mission (IIM). The first target of the mission was to set up an Interplanetary Exploration Station (IES) on Mars. Before the establishment of IIM, the space scientists, through numerous missions that carried robot scientists, had proved that water and oxygen can be produced using the elements available on the

**mars.** As a first step the IIM had been preparing to send a mission with men on board during the first decade of twenty second century.

In harmony with all the above developments, Sugirl chose her topic for the dream speech. “I suppose we have successfully sent the first human mission to Mars” – when Sugirl started her speech with those words there was a nonstop applause.

“Now, the IIM scientists have to design equipments necessary for setting up the permanent workstation on mars” – Sugirl continued her speech after a pause. “I dream that we send the developed components to three different space colonies nearby mars, based on the specialization of scientists in each of the colonies. The space colony nicknamed as NNM001 (nearest neighbour to mars 001) will be the coordination centre in the space of this mission. We will also develop medium size spaceships and send them to the above space colonies to shuttle between the space colonies and the planned workstation on mars.

We would also require rockets and spaceships that can travel in unimaginable speed to transport people from earth to mars in a couple of months to set up the permanent workstation. I would like to call this mission as ‘Mars Village Mission (MVM)’.

In her dream speech, she also shared many alternative plans as well.

“If the discovery of such a speedy spaceship would become impossible, experts can be transported in two or three phases by providing short stays at different space colonies that exist near to the space way to mars at different distances. Once we

successfully complete the establishment of permanent workstation on mars and start to produce water and breathing air, then we will start to set up our dream village on Mars in the same way the world has been set up space colonies, I mean adding a module after module.”

“I thought a lot of times that which one would be more difficult; transported to Mars or setting up facilities for common men to live there? What would be your answer?” – she threw an open question at her audience during the dream speech. She got no unanimous opinion. After a few seconds she continued:

“Even the well experienced scientists like you are not able to give a concrete answer to my query. What does it mean? It doesn't mean we are all idiots – I'm sure” – she paused for the widespread laughter to settle down.

“Okay friends, it does mean our mars village mission is too complex and difficult for us even to visualize. Therefore, we have to work on the development of techniques for transportation and workstation construction simultaneously. Will you people take me to mars in five years?” – a very loud ‘YES’ echoed in the conference hall when Sugirl concluded her dream speech with that question.

## 24 A BILL FOR REVOLUTIONARY CHANGES IN HEALTH CARE

On the Thursday in the second week of her Presidency, Sugirl convened the first session of the Senate after she formed the government. On the first day of the first session itself Sugirl presented a bill for revolutionary changes in the Healthcare system.

The dramatic changes in the health care system of Imanofutu had, in fact, begun from the last quarter of twenty first century itself. The beginning of the twenty first century witnessed a highly commercialized and only profit motivated private health care system in Imanofutu as happened in most of the other countries during that time. However, the climate changes, the resultant recession and consequent changes in the life style had together, put an end to the ruthless profit making in health care.

Sugirl in her bill suggested initiatives for bringing social orientation and professional ethics back into the system. She

recognized that amidst all kinds of adversities posed by climate changes, the Imanofutean scientific community worked very hard to bring about positive changes. Through the bill Sugirl proposed to develop natural, cheaper and very simple medical procedures and equipment. The technological innovations were happened in twenty first century also, but the industry had hidden the possibilities and simplicities of the technology from the people for the sole purpose of exploiting them ruthlessly. That kind of profit making was always at the cost of the life of the people.

Based on past experiences of the country and the world, Sugirl, in her bill, had proposed to make it mandatory that the technology of all medical equipment and procedures should be open. The peculiarity of the proposed medical laws was that only after publishing the technology with minute details in the public domain for public opinion for three months, any technology would be cleared for commercial production and medical use. It would be same with the case of medicine and treatment protocols also.

The scientists, industrialists, lawmakers, social workers, medical practitioners, enforcement agencies and the general public of Imanofutu had been thinking that medical experiments were costly and to a greater extent dangerous as well. Therefore, if the research findings, technology and procedures were made openly, the repeated expenditure for the same cause as well as repetition of dangerous experiments in that respect could be avoided. Otherwise, it would be the greatest crime that a scientific branch and industrial sector commit.

To ensure that above laws and ethics were strictly followed by all stakeholders, Sugirl, in her bill, insisted that all such

research had to be publicly funded. It was also observed that, medical research, especially those deal with microbes and viruses, were highly dangerous. Anything that goes wrong would have unpredictable implications.

Following the presentation of the bill, the Imanofutu House of Senators had witnessed very heated debates and the result was a highly divided house. At last there developed a general consensus to ask the Senators Committee on Health Care to examine each senator's opinion, conduct public hearing and submit the conclusions of the committee within three months.

Sugirl was very confident that the committee would come up with positive findings because Dr. Medisaint, the senator who was also one of the most honoured doctors in Imanofutu, was the chairman of the committee. He was all against the cumbersome conventional systems and complex protocols in healthcare, which made the hospital of twenty first century houses of mystery and fear for the common man. His dream was to make hospitals more lovely than one's own home.

Medisaint was well aware of the fact that his dreams meant the total change of an existing system. He openly agreed it whenever critics from industry and other professional bodies mentioned his efforts as lunatic. But he never stumbled before such criticisms. He kept on thinking about it and worked out ways towards his dreams. It contributed a lot of policy changes and legal frameworks for openness in medical practice during Humit's presidency itself.

During his childhood, Medisaint was among those children who suffered severely from climate change related issues and had to spend prolonged periods in hospitals. Perhaps a

revolutionary medical practitioner took birth within him during those days itself.

Similarly, his education was also during a period wherein new educational thoughts and technologies were being experimented. While making virtual learning as the mainstream method of higher education, there were no models before the Imanofutean policy makers and educationalists to try out. Everything was new. Quite naturally it caused a lot of damage to the students and protests as a result of it. But Medisaint wanted to stick on to the new systems, realizing that those were the only workable models in the given situation. He also helped the authorities a lot to fine tune the systems. In a way, he was a student as well as a part-time administrator during those times – purely on a voluntary basis.

## 25 AN EMERGENCY IN THE SKY OVER IMANOFUTU

By around 10 PM, the Imanofutu Space Station alarmed the Imanofutu Air Force of the entry of a strange vehicle into the outer atmosphere of the country. Simultaneously the Radar Control Unit of the Air force also confirmed the entry of the strange object and the robot saucer guards sketched the object within the control of their aero -dynamic arresting system. The aerodynamic arresting system had absorbed the speed of the strange vehicle by its kinetic energy absorption procedure and kept the vehicle floating in the sky within their control.

The aerodynamic arresting system was developed by the Imanofutu Space Agency to defend the country from the small asteroid strikes, which had become frequent during the last decade of twenty first century. The position of the Imanofutu in the globe also had some vulnerability in terms of the increased possibility of foreign bodies to enter into its atmosphere. A lot of causalities occurred before the Imanofutu Space Agency could try out the primitive version of the aerodynamic arresting



system. It all started from the discovery that kinetic energy can be remotely absorbed. It was a discovery having far reaching implications. After successfully testing the primitive models, the space agency could develop a full-fledged and fully reliable Aerodynamic Arresting System.

The strange vehicle was of the shape of a top. Along with the forward movement, it was also spinning at high speed. The aerodynamics arresting system was successfully able to reduce the speed of the forward movement of the strange vehicle to zero in three phases of thirty seconds each. Thereafter, it had arrested the spinning also. Since weak radiation was detected from the vehicle, the robot saucers put the vehicle in isolation in the high altitude and postponed the routine scanning of the objects and waited for further commands from the ground control.

Immediately on the robotics saucers had arrested the strange vehicle, the air force officials, space and nuclear scientists reached the spot in three different special saucer planes. At a safe distance away from the strange vehicle, the saucers of the three agencies connected together and formed a Saucer Cluster. It was setting the venue for an on the air emergency conference.

While the above incidents occurred in the far above the sky, Sugirl was carefully examining the new network technology implementation progress reports. Suddenly the Air Chief Marshal of Imanofutu Mr. Arean appeared in the air force hot channel of the presidential VHM communication device. The Chief Marshal was seemingly alarmed.

“Good evening, Ma’am President”

“Good evening Mr. Marshal, what’s up?”

“One emergency”

“What?” – an astonished Sugirl asked, because there wasn’t any situation that demanded emergency involvement of the air force for the last three centuries in the history of Imanofutu. The only war Imanofuteans had been fighting was the war against climate change problems.

“Ma’am a confirmed Alien vehicle entered into our sky”

“Oh, my goodness! You mean A...l...i...e...n?” Now the astonishment in the face of Sugirl crossed all boundaries.

“Yes Ma’am!, It is now under our aerodynamic arrest and situation is under control”

The air force chief briefed the president of the situation and Sugirl expressed complete satisfaction over the operational strategies adopted so far. At that moment, the chief requested president’s VHM participation in the on the air emergency meeting.

“Definitely, I am already in” – she said it while touching the screen to accept a VHM conference invitation.

## 26 AN EMERGENCY MEETING IN THE AIR

The Air force officials and the space scientists moved to the saucer of the Nuclear Agency, where the nuclear scientists were analyzing the strength of the radiation from the strange vehicle. The president was also virtually present in the conference room through VHM. After a few minutes discussions they concluded that the radiation was very weak and hence decided to do a full scanning of the vehicle. They were not sure about the presence of any living beings in the foreign vehicle. Still the scientists and the other officials wanted to ensure that nobody inside the vehicle should be hurt because of the scanning procedures.

Then all of them moved to the saucer of the space agency, which was the biggest of the three and had a mission control room with all the advanced facilities available during that time. When the group of six nuclear scientists, six space scientists and four top air force officials entered into mission control room, two other space scientists greeted them in a victorious mood and cried out:

“We traced some strange sound waves from the alien vehicle!!!”

“Machine sounds?” - all others asked in one voice.

“No, something like a conversation”

“Do they speak Iman\*?” – the senior most Air Force officer in the group cracked a joke and everyone enjoyed it.

“Hmm... from the variations of pitch, we guess it is some sort of an oral communication” – they played back the analysed part of the sound wave. After hearing it, everybody agreed that it was some sort of an oral communication. After a few moments, the leader of the space scientists team said

“Let us go on with the scanning, but with much caution”

*\*Iman: Official language of Imanofutu*

## 27 INVESTIGATING ALIENS IN THE AIR

Immediately after starting the regular scanning process, the space scientists recognized that the strange vehicle is insulated from radiations. They contacted the ground control to send the scanning saucer, which had all the varieties of scanning equipment on-board.

In a few minutes the scanning saucer also joined the earlier cluster of three saucers. The saucer also carried radiologists who had experience in scanning space objects.

They analysed the nature of the insulation the strange vehicle was having in detail and suggested a sequence of procedures. The leader of the Space scientists' group had signaled ok.

After a lot of efforts by applying various scanning methods one by one, suddenly the monitor displayed some vague images. It was taken by the team as a very positive indication for an approaching success. They fine-tuned the procedures and revised the protocols for better results. Finally the secrets inside

the strange vehicle began to unveil.

The scanner could not match the material used for building the strange vehicle with any of the metals or non-metals known to the scientists on earth. In the inner layer, where you could normally expect a lot of chips and wirings, the scanners could identify only some liquid substances looked like a plasma.

When the scanner further sharpened its eyes, the real mystery had been revealed. The Alien in the vehicle! – the radiologists who were scanning the alien vehicle as well as all others who were watching the scanned images in the monitors jumped off their seats with uncontrollable excitement. Yes, they were seeing the real aliens, which existed only in stories and myths so far.

Immediately after that the emergency meeting was again convened with president's virtual presence. They discussed the developments so far in great detail and decided to guide the alien vehicle for a landing in the eastern seashore of Imacifutu, near the underwater laboratory of the space agency. Since there was no way to communicate with the aliens, a forced landing was planned. In the forced landing, the aerodynamic arrestors would pull the aircraft down in a controlled manner for landing at a pre-designated place.

## 28 HOW TO ESTABLISH COMMUNICATION WITH ALIENS

The expert team was able to successfully complete the forced landing of the alien vehicle on the eastern coast of Imacifutu, the capital of Imanofutu.

When Sugirl and Aream reached the spot, there was a substantially big crowd of space scientists and air force personnel. No others came to know about the incident as the air force kept it highly confidential. People who accidentally came near the place, as nights being their regular working hours, thought that it was also an experimentation like the ones they used to witness during those days.

The chief of the space agency greeted the President and briefed her of the incidents and findings so far. It was followed by another emergency meeting in the open. The air force, nuclear agency and space agency officials and experts who had observed the strange vehicle and the three Aliens in it described their findings to the president. How to proceed further was the

big question.

They could not open the vehicle and establish direct contact with the Aliens before clearly identifying their living conditions. For getting a better understanding on that matter, the information on their planet of origin was also very important. But unfortunately it was not available then. Therefore the first decision was to alert all the nations in the world to get information from their satellites and space stations to track the path of the Alien's Vehicle. They also had no clue on how many days the Aliens inside the vehicle would be able to survive as such. However, the scientists strongly believed that since the aliens were able to travel to the Earth, they would also have been anticipated contingencies and emergencies like the present one. It meant that they would get some more time to track the Aliens and establish contact.

In the open air emergency meeting it was also decided that, separate teams would keep on studying various aspects about the aliens and their vehicle. Accordingly, teams were formed with specific tasks such as analysing the material used to make the vehicle, inner circuits and controls, energy supply systems, aliens and their activities etc. The whole area was put under the surveillance of Imacifutu city guards.



## 29 ALIEN VEHICLE AND LIQUID FUNCTIONING SYSTEMS

The experts' team entrusted with the task of analyzing the inner circuits and controls had found out that the alien vehicle had a kind of 'liquid functional system' – as they named it. To their amazement, they found out regular ionization and de-ionization activities in the plasmatic liquid that was filled in between the outer and inner shells of the vehicle. After forty eight hours of careful study they had also found out that the plasmatic liquid had been creating circuits to conduct some form of energy based on requirements being triggered from somewhere. Possibly from a chipset kind of unit, which was yet to be located.

Instead of a network of wires and other components between the inner and outer shells as the earthly space crafts used to have, the alien vehicle had only a thin layer of plasmatic liquid. But nowhere in the vehicle, had their scanners found out anything looked like a chipset or computer control. Similarly, no knobs or conventional panel boards and monitors, as you expect in that kind of vehicles, were also able to be located.

“IT IS A TOTALLY NEW TECHNOLOGY” – the team conveyed to their senior colleagues. The scientific community of Imanofutu had become so impatient to have a thorough close examination of the alien vehicle. But before that the space agency had to locate the planet of the origin of Aliens; perhaps to ensure the safety of aliens inside it.

## 30 STUDYING THE ALIENS

The team entrusted with the function of observing and studying the Aliens comprised of all the major branches of medical science, chemists, genetic engineers, physicists, space scientists and atomic scientists. Ms. Futura was the team leader.

Their first observation was that the body of Aliens had no similarities with the human body. They did not, at least their scanners could not, identify the presence of bones, blood and the nervous system as the earthly man. On the scanner monitors, aliens appeared as completely transparent bubbles of strange shapes. Though there was a head like structure on top of the bubble, the scanners were not able to identify distinct features such as eyes, ears, nose etc.

It was an evening. The sun was about to set after burning the Imanofutu with its angry day light. Ms Futurea was briefing Sugirl about the developments so far. In the meantime, her team members were enjoying a light talk.

“Are they just soap bubbles?” – Sofan, a junior chemical

engineer, asked humorously.

“Wait, we cannot jump into conclusions at this point of time. There can be elements that our scanners cannot identify or their properties may play tricks with our scanners” – the group leader of atomic engineers said.

“You are right. We have to wait till we are able to open this strange vehicle and get them in front of us” – the group leader of the medical scientists said.

“The scanners are programmed to identify things that we know. How can scanners identify things that we do not know? Sofan’s comments are echoing in my mind. Are there elements that we can never recognize? ...or at least we haven’t recognized so far?” – a senior radiologist said.

At this time Ms. Futura, the team leader, finished her briefing on the findings so far to the president and asked the team to gather for firming up the working strategy.

## 31 ENERGY SOURCE IN THE ALIEN VEHICLE

The team entrusted with the identification of energy source of the alien vehicle was not able to identify anything for the first two days. The only thing they could find out was the frequent ionization and deionisation of the plasma kind of liquid that was found in between the two shells of the alien vehicle. But the question ‘how does it happen?’ remained unanswered.

After the second days failed attempts, the youngest among the nuclear scientists asked in desperation to his old scientific mentor over the mobile VHM channel “ Will that plasma like liquid itself would be both the power source and circuit?”.

Mr. Nucleon, a well-known nuclear scientist who retired from the Imanofutu Atomic Energy Agency was at the other end. At that moment his granddaughter, who was a cloned baby of his son who succumbed to death consequent to heatstroke, asked: “Plasma? What’s that grandpa?”

His granddaughter’s question made Nucleon very pleasant. He was that much passionate about nuclear science. He was, in

fact, the master brain behind the development of nuclear generators during the presidency of Humit. He grabbed each opportunity to explain nuclear science as well as to update himself with the new developments in that branch of science like a child grabbed her favourite food. He was also coordinating the activities of an NCN group on nuclear innovations as a volunteer, which was, in fact, founded by him.

After completing his conversation with the young scientist, the old man turned to his granddaughter “My dear little beauty, plasma is actually an ionized gas made up of electrons, ions and neutral particles, but electrically neutral. The word was first used by Irving Langmuir in 1928 to describe the ionized gas in an electric discharge. It is considered to be the fourth state of matter. In a series of phase transition of matter like solid-liquid-gas, if we continue to increase the temperature above, say, 20 000 K we obtain plasma.”

‘Okay, but...how does it produce electricity?’

Nucleon sat silent after hearing the question of his granddaughter. He was plunged into some serious thought. After waiting for a few seconds for a response from his grandpa, the girl grabbed her digital reader from the table and started to read her favourite Imanofutu series of fiction.

After a few minutes, Nucleon jumped off his seat and said aloud “It’s possible...it’s possible”. The girl looked his grandfather with much astonishment. But without caring her the old man set the VHM for an urgent video conferencing.

## 32 FLIGHT SYSTEMS OF THE ALIEN VEHICLE

In order to avoid any possible difficulties or injuries to the aliens inside the vehicle, only a restricted number of scanning were conducted. Each scanning was well thought out and well organized ones to cater to the requirements of multiple teams. The resultant data was being shared to the laboratory of each unit for further analysis and conclusions.

The aeronautic engineers who were studying about the flying systems of the alien vehicle found that the shape was very suitable for long distance flying in lightning speed though the space. The heat resistance capacity of the material used to build the outer shell of the vehicle was unbelievably high.

The studies on the propulsion and flying systems of the vehicle posed a very difficult challenge to the scientists and engineers. They could not locate any conventional machines or its parts that the earthly engineering was familiar with. Similarly, no fuel like thing was also located, apart from the plasma like

thing that was filled in between the outer and inner shells of the vehicle.

Thus, it had become a complex query for the experts to answer 'how did this vehicle travel these much distance?' To find an answer, the aeronautical engineers wanted to open the vehicle but they had to wait for the green signal to do so from the mission control unit, which was analyzing data from all space stations to locate the place of origin of the vehicle.



### 33 NETIZENS' COMMUNITY NETWORKS CELEBRATES THE ALIEN ARRIVAL

Since everything was under close surveillance and investigation, neither the government of Imanofutu nor the experts collaborated with it had revealed much detail to the public. The only information officially announced by the government was that their agencies located a vehicle along with some creatures in it in the outer space of Imanofutu and forced it landed on the Imacifutu's eastern seashore. The announcement also told the people that investigations were progressing in good pace and further information was likely to be released soon.

In the above context, as usual, the NCNs had become a battlefield of speculations, imaginations and sparring debates on the origin, shape and the ability of the alien's to communicate with human beings.

Somebody very authoritatively posted that the origin of the alien vehicle was confirmed as the moon of Neptune. Some online dailies displayed flash news stating that there were

unverified reports that more alien vehicles were moving towards earth, perhaps to rescue the aliens in the vehicle that was forced to land in the Imacifutu seashore.

Some others believed that the aliens were the higher order human beings who were closer to the deities. In the meantime the scientific community was struggling to find answers to all queries on aliens.

Anyhow, the plus point of the above discussions was that it made the Imanofuteans very active; perhaps for the first time since they were captivated by the dangers of climate change issues many decades ago.

*\*\*\*In the Volume 3 of the Imanofutu Series we will completely explore the mysteries behind the aliens\*\*\**



## ABOUT THE AUTHOR

P. Anil Prasad lives in Thiruvananthapuram, Kerala, India. The first volume of futuristic fiction series Imanofutu was released in 2013. He authored the story collections The Netizens, The Quake and other stories and Bhukambavum mattukathakalum (Malayalam), an educational book titled 'Athirukalillathe Arivinte Lokam (Malayalam)' and a collection of philosophical thoughts named 'Cardinal Rules for a Calm and Pleasant Life'. He is also a supporter of open education and open educational resources.

*Author can be reached at the email: [Imanofutu@gmail.com](mailto:Imanofutu@gmail.com)*