



## Cloud of Everything Tech against Covid 19 in General and in Aviation Particular

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The everything cloud is the modern technology of the 21<sup>st</sup> century. It must be known, exploited and generalized, and it is the positive side in the Corona crisis. According to behind every grant, the ordeal and tribulation of the Corona grant is a cloud of everything and the negatives of the Corona correspond to the positives of the everything cloud.

In this article, the negatives of corona in general, and of aviation in particular, are reviewed, as well as the advantages of the cloud of everything in general and of aviation in particular, and we recommend in it the knowledge, exploitation and generalization of the cloud of everything in all areas in the world as a whole.

### Cloud of everything in general

- ALL THE Sectors in the world INC Aviation Must recognizes, Appreciate and Get Benefit of the technological gift of the 21<sup>st</sup> century COE INC AI, Block chain, Digital Currency, Cloud, Cloud of Things, Tactile Internet, Digital Twins, IOT, AR, VR, MR, U commerce, data and robotics.
- A key to IT's response to climate change.
- Creating smart cities - united communities, a smart planet - protected environment, as well as smart houses and industries.
- Changing healthcare by changing the life of a patient.
- Preventing global warming, reconstructing buildings after natural disasters, and combating droughts.
- Sustaining agriculture crops.
- Improving modern education, fighting unemployment by creating new job opportunity.
- Improving the economic level by growing GDP of a country.

- In aviation, reducing travel time and increasing safety and passenger comfort.
- Improving in home, healthcare, military, natural applications.
- Helping elderly and handicapped people and fixing the millennium-old human problems of poverty, disease, violence and poor leadership.
- Achieving the 17sd&169 Goals UNITED Nation 2030.

### Cloud of everything aviation particular

- Thirty-seven 37 percent of companies tend to implement modern technology in their work procedures and 67 percent of them believe that cloud services will lead to the best at work.
- COE allowing saving \$30 billion on fuel within 15 years.
- Improving services of air companies and airports by collecting data in real time.
- Informing passengers of flight delays and cancellations based on the COE service for information collection and analysis.
- Allowing airline customers to wait for a delayed flight at home or in the office rather than in the airport.
- Opening a new age of passenger transportation.
- Reducing the number of flight delays and enhancing on-board safety.
- Life jackets, oxygen masks and workability of airplanes will be constantly checked.
- Enabling automatic identification, smart tickets, and smart recommendations on flights.
- Improving the procedures of departure, arrival, holding to become more comfortable for passengers.
- Notifying passengers about the time of departure, arrival, and staying at an airport when flights are delayed.

- Enhancing of safety and comfort of passengers during flights.
- Transforming airports and aviation in general for Better.

### Cloud of everything in fighting covid-19

- Behind every ordeal crisis a grant and activation of cloud of everything CLOUT in the entire world could be the grant of COVID 19 Pandemic.
- Cloud of things can positively influence the healthcare sector; for instance, by reading the DNA structure and detecting diseases at early stages. For instance, technologies will help to calculate the probability of cancer development or study the Parkinson's disease in detail. Smart devices can also prevent the spread of infections, for example, Zika virus, COVID 19.
- Finding infected cases, learning about the condition.
- Writing a report on each case and delivering food and medicine to patients in hospitals to prevent contact and communication.
- Using to sterilize streets and deliver medicines to hospitals and food to avoid infection.
- Measuring fever, temperature and to the extent of wearing the muzzle and to warn people.
- Raising awareness of the danger of the Corona virus and measure the temperature and extent of wearing the muzzle in remote areas.
- Diagnostic sessions for remote patients, planes, and ambulances without a driver to transport.
- Establishing of a new health system for each person on the mobile in three colors green, yellow and red, allowing green freedom of movement, yellow in certain places, and red with quarantine.
- COE IN virus detection and prevention and control of infectious diseases.
- COVID 19 risk levels by activities in a 9<sup>th</sup> levels the MOST dangerous two levels represent 9<sup>th</sup> level places like: large music concerts, Bars And then 8<sup>th</sup> level places like: gyms, sports stadiums, gyms, churches and mosques...all in red colour.
- From level 7 to level 6 in sequence places like schools Basket Ball then, movie theaters, restaurants all in orange colour.
- Level 5 like Airplane, Malls in Yellow color and Level 4 in light green like doctor office waiting room.

- Level 3, 2, 1 in dark green and IN sequence like hotels, getting fuel, getting takeout from restaurant.
- The probability of contagion is v High 90% if two person one healthy and other infected does not wearing a mask and high 70% if the healthy one wear a mask and the infected one does not wear a mask, and medium 5% if the infected one wear a mask and the healthy one does not wear a mask, low 1.5% if both Wearing A mask, and none if healthy one stay at home.
- That is why the most important thing is to detect the infected person by using clout tech and the people that attach to him by clout to reduce number of infected and dead people with COVID19 infection.

### Cloud of everything in general

- Some bad news statistics as an effect of COVID 19.
- The estimate of U.S. retail e-commerce sales for the first quarter of 2020 totaled \$146.5 billion, a decrease of 21.1 percent ( $\pm 1.1\%$ ) from the fourth quarter of 2019.
- Africa's 2020 growth have fallen from 3.9% before the crisis to 0.4% or lower.
- In Australia almost 1 million people unemployed and another 3.5 million on Job Keeper.
- Some Good News Statistics as an Anti-effect of COVID 19.
- "The post Covid-19 world will depend more on local supply chains. Japan has already set up a \$200 billion dollar fund to attract companies to set up manufacturing and factories in the country".
- "If women had equal opportunities to be entrepreneurs, global GDP could rise by a whopping 5 trillion dollars".
- IOT could eliminate waste up to 150 billion dollars in industries. (Aviation-healthcare-power-Rail-oil and Gas) potential of IOT saving 1 per cent 1% across Global industry.
- 5G in USA Will generate 500 billion dollar and 3 million jobs.
- In 2035, 5G will generate 12, 3 trillion-dollar global economy equal to consumer spending in USA at 2016.
- Artificial Intelligent in Aviation Market will grow from 2017 to 2024 with an expected CAGR of 47%.

### Cloud of everything statistics in aviation particular

- SOME Bad News Statistics that we got as an effect of COVID 19.

- Foreseen airline revenue losses of up to \$252 billion in 2020 (IATA). Previous estimates were at \$113 billion - roughly equivalent to industry losses following the global financial crisis.
- Reductions in traffic between 48% and 61%.
- Passengers has seen its traffic fall from 10.9 million passengers in March 2019 to 5.7 million in March 2020.
- The decline in traffic over the year 2020 should reach 50% and in April 90%. While aircraft remain on the ground, fixed costs continue to run.
- The alarming statistics of the airline industry during the Coronavirus crisis.
- \$200 billion in loans to avoid massive bankruptcies.
- \$61 billion spent by companies (cash burn) on Q2/2020.
- 70 to 90% of air traffic at a standstill.
- 75 million jobs at risk.
- a 44% drop in the sector's revenues for the year 2020.
- Some good news statistics that we got as an anti-effect of COVID 19.
- A study by Statista estimates rise in AI revenue from \$3221.8 million in 2016 to \$89847.26 million in 2025.
- According to experts, the in-flight broadband market will grow from an annual \$900 million USD to a potential \$30 billion USD by 2035.
- IOT could eliminate waste up to 150 billion dollars in industries. (Aviation-healthcare-power-Rail-oil and Gas) potential of IOT saving 1 per cent 1% across Global industry.
- Artificial Intelligent in Aviation Market will grow from 2017 to 2024 with an expected CAGR of 47%.
- MRO-Air can reduce errors 50% by and increase efficiency by 30%
- Up to 20% delay from turn around solved by clout.
- Reduction 1% in fuel jet fuel using clout tech can SAVE 30 Billion dollars over 15 years.
- Industrial internet using clout can save 2 billion dollars a years for airlines.
- 5G in USA will generate 500 billion dollar and 3 million jobs.
- In 2035, 5G will generate 12, 3 trillion-dollar global economy equal to consumer spending in USA at 2016.
- The ability of artificial intelligence to predict both the price of the airline ticket and the management of the flying Crew 90 days before the rate of 70 to 80 percent.

**Cloud of everything statistics in aviation particular II**

- A percentage ranging from 52 percent plans to develop and research programs in artificial intelligence in the next three years and 45 percent in the five years for airports before the Corona pandemic and expectations from industry experts and sources to recover by the end of 202 before the outbreak of the pandemic.
- Using artificial intelligence in the next three years for airlines to research and development by 52 percent, and to invest 45 percent in research and development in the next five years at airports, according to the SITA 2017 Air Transport IT Trends Insights.
- According to SITA reports, the trend to tackle flight disturbances is to save \$ 25 billion by using artificial intelligence technology in 2017.
- Using this modern technology, delays can be expected for a long number of hours from 48 to 72 hours or short, less than 48 hours, According to SITA.
- According to IT reports, 68 percent of airlines and 42 percent of airports plan to adopt chat-enabled robot services in 2020.
- The benefits of artificial intelligence are numerous and amazing. Within one week of publishing the number of six applications, a million dollars were collected from additional revenues, and the net profit increased by 60 percent.
- VIVA aero bus.
- The speed of the spread of the fifth generation by 2021 there are 340 million connections, and by 2025 there are 2.7billion connections, mostly in developed markets. The aviation industry 5G amounted to reach USD 4.2 billion by 2026 after USD 0.2 billion in 2019
- Using the digital asset development model, Boeing aircraft manufacturer improved by 40 percent in parts and systems quality.
- Investment in digital twinning yields a 30% improvement in cycle times of critical processes, including maintenance.
- By using digital simulations, it increased 100% safely, without compromising safety that are directly connected to aircraft, so the total load weight can be increased up to 23%.
- 86% of airline leaders expect identifiable benefits of IoT within the next three years, and 37 percent have already started experimenting with IoT improvements to combat rising costs.
- Growing 1,372 million by 2025 after USD 78 million in 2019 to USD during the forecast period. at a CAGR of 61.2%

- In the 2018-2020 timeframe, 68% of respondents replied by making investments in wearable or handheld devices.

In maintenance, repair and overhaul (MRO) operations.

### Cloud of everything statistics in aviation particular III

- 86% of industrial enterprises are expected to be moving AR pilot programs into production within the next 12 months, PTC reported report by augmented reality (AR) and Internet of Things (IOT) specialist company.
- The Aircraft wiring productivity increasing by 25% while errors were reduced to practically zero.
- By using Augment Reality, Boeing reported that.
- 30% reduction in requests from technicians for engineering support, and faster resulting resolution of problems By Using MRO.
- An 8-12% improvement in the efficiency of the operation using an AR headset and related software to follow maintenance, and 85% believed that the AR approach would reduce errors during the procedure.
- 85% of aviation accidents happen due to an error made by pilots, The decisions LIKE evaluating the maintenance of an aircraft and reading control panels, also checking the weather, IT needs a lot of effort in the aviation industry, May be for sure something wrong with the technologies and techniques that pilots use while flying.

That is why augment reality/AR becomes a perfect solution:

- Equal to 90 billion dollars by 2020. AS Market Value.
- Augmented and Virtual Reality (AR VR) Market in Aviation Expecting to reach Equal 1,372 million dollars by 2025.
- From USD 78 million in 2019, as a CAGR of 61.2% in the period from 2019 to 2025
- Improving passenger experience is something clear driver for the virtual and augmented market in aviation. Also, in Reduce reducing the chances of human error also help a lot in drive this market.
- The report of “Virtual Reality and Augmented and (VR AR) Market in Aviation”.

### Conclusion

Technology of the twenty-first century cloud of everything can play a fundamental role in improving the conditions in which Covid

19 affects all areas of life, such as aviation, after its generalization and good use, ALL THE Sectors in the WORLD INC Aviation Must recognizes, Appreciate and Get Benefit of the technological gift of the 21<sup>st</sup> century COE INC AI, Block chain, Digital Currency, Cloud, Cloud of Things, Tactile Internet, Digital Twins, IOT, AR,VR,MR, U commerce, Data and Robotics [1-14].

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