Presentation Title:

Tackling Aggravated Climatic Meteorological Weather Challenges Through Technology Transmission (TACMWCT³) FORMULA…!!!

Author and Co – Author Names:

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Abstract: Short Description of what will be discussed during the presentation (about 250 – 500 words):

In short, the presentation will be discussed the forthcoming natural and manmade catastrophic events… One day which may affect our Natural Eco – System and it's existing Air – Environments' Climatic Weather Changing Conditions/ Occurrences… which are abruptly changing/ degrading quality day by day… due to the generation of the **"Contaminated/ Polluted Constituents"** in the form of solid, liquid and gaseous substances **"Whole Around the GLOBE"** @ Local, Regional and Worldwide Scale. The promotion of cleaner, climate – friendly technologies and improved environmental management practices for enhanced livelihood sustainability and fostering resilience requires resources, which are accelerating rapidly, and all have strong interlinks/ connections with the roads/ buildings/ industries as depicted in **Figure: Project Execution Objectives and Decision Making Work – Life Cycle…!!! Through Technology Transmission (T³ Formula…!!!)**. The road, building, the industry are hugely dependent on cheap resources from the manufacture and transportation of its materials to the machinery and tools used in demolition and construction. Not only in India but also in other countries, they use vast quantities of fossil fuels, accounting for over half of total *Carbon Emissions {e.g., in the form of Soot Particle OR Black Carbon OR Volatile Organic Compounds}* that lead to an increase in temperature, global warming, and climate change. With the inevitability of declining fossil fuels, and the threat of global climate change, reducing our energy consumption is an essential survival strategy.

The farther a product travels, the more fuel is consumed, and a greater level of greenhouse gas emissions is produced. These emissions contribute to pollution, climate or weather events like Meteorological parameter changes, and ocean acidification around the world and have been shown to significantly impact biodiversity. The main byproduct of these energy sources comes from emissions, which significantly contribute to **"Global Warming"** and **"Climate Change"**. Increased emissions, ocean acidification, deforestation, climate change, and the introduction of invasive species all work to reduce biodiversity whole around the globe. *Climate Change Could Increase Air Pollution Levels by Accelerating the Atmospheric Chemical Reactions that Produce Photochemical Oxidants Due to Rise in Temperature*.

Climate change is already happening and even if we take immediate – drastic steps to reduce emissions, significant change is going to occur throughout the world. *"Green House Gas" emissions from transport represent 13% of total India's domestic emissions, decarbonizing transport must be part of the solution in terms of Cleaner/ Greener Environmental Technologies*. This

will be a major change, but moving to a low – carbon economy and transport system also present huge opportunities; not just for climate change but for our prosperity, health, and the wider natural Air – Environment System. This will be a major change, but moving to a low – carbon economy and transport system also present huge opportunities; not just for climate change but for our prosperity, health, and the wider Air – Environment System. *__Characterized by heavy reliance on cars, and trucks for both passenger and freight movement, transportation is major consumer of fossil fuels and Major Big contributors to Climate Change are Meteorologicall Climatic Conditions OR Weather Challenges/ Events OR Disrupt Environmental Sustainability Enhancements__*.

Key Words: *Cleaner/ Greener Environmental Technologies, Operational Design Models, Climate – Friendly Technologies, Meteorological Climatic Conditions OR Weather Challenges/ Events, Environmental Sustainability Enhancements, Environmental Management Practices, and __Work – Life Cycle__*.

What will the audience learn from your presentation?

(Try to list 3 – 5 specific items)

- **Explain how the audience will be able to use what they learn?**

  - Layman and the audience will be able to use all the terms theoretically and practically both types of terminology by grasping simple photographic presentation and examples in terms of poster illustrations.

  - The Audience will be able to use as per their necessities and requirements what they learn from the advanced Predictive Climate Modeling Forecast, which gives Warning OR Alert System to rescue or escape, when unpredictable, snow avalanches, torrential rainfall, heavy flood, cyclone, Hurricane, typhoons, tsunamis (a catastrophic sea tides/ waves disaster) in the coastal areas are likely to transpire.

- **How will this help the audience in their job?**

  - This will definitely help the audience in getting their jobs… because in today's ongoing period of time, this topic is highly demanding in terms of Global Warming, Green House Effect, Climate Change, and Temperature Rise.

  - When the people or spectators get theoretical as well as practical experience through academic research institutes/ organizations/ Meteorological Observatories in this respective field will help to become a Meteorologist, Weather Forecasting Programmer, Climatic OR Weather Prediction Modeler OR Observer, etc. types of jobs would be available in the long run future… as a positive outcome of this study and research paperwork…!!!

- **Is this research that other faculty could use to expand their research or teaching?**

  - This research other faculty could use to expand their overall research or teaching will unquestionably help the companion fellows, viewers, spectators, observers, bystanders, onlookers in getting their excellency in multidisciplinary research study network as well as occupational employment in the long run with innovative ideas, groundbreaking revolutionary areas, futuristic aims, outcomes and objectives…!!! Because in today's time

this subject matters are exceedingly challenging/ burning themes in terms of Rise in Temperature, Meteorological Climatic Weather Events or Challenges, Global Warming, Green House Effect and Climate Change.

➕ Yes of course… Why not this research that other faculty could use to expand their research or teaching while disseminating such kind of information among students, academics, research network program through study material notes, poster display, presentation, assemblies, gatherings, congresses, seminars, symposia, meetings, agreements, conventions, workshops @ national and international level conferences, webinars etc… etc…!!!

- **Does this provide a practical solution to a problem that could simplify or make a designer's job more efficient?**

  ➕ This will provide theoretical as well as practical solutions to a problem which may simplify or make a designer's job profile more competent, resourceful efficient well – organized research network people, laymen, learners, beginners, and other faculty could use to expand their overall practical elucidations… while approaching their work towards highly skilled laboratories, organizations, academic education will categorically help them @ local/ regional and global scale.

  ➕ Yeah…!!! No uncertainty @ all…!!! As this will deliver the practical resolution to a problem that could streamline and modify a designer's job prospects more efficiently **Through Technology Transmission (T^3) FORMULA…!!! And Magnificent Applications to A PROBLEM** in more elaborated ways with an explanation of the research study areas/ aims/ objectives and job oriented programs' network variations/ adaptations…!!!

Environmental Practical Solutions Through Technology Transmission (T^3) FORMULA…!!! And Magnificent Applications to A PROBLEM:

Sensor Technology
➢ *Monitoring Indoor Air For Volatile Organic Compounds;*
➢ *The Multiple Atmosphere Controlled Environment (Mace): Advanced Type Testing Facility For Gas Sensors;*
➢ *Hazardous Waste to Energy Plant… Improves Odour Mitigation with Smart Sensors And Environmental Intelligence;*

Environmental Laboratory
✓ *Norwegian Institute For Water Research (Niva) Q & A Customer Story;*
✓ *Improved Sensitivity For The Detection Of Per And Polyfluorinated Alkyl Substances (Pfas) Using the Direct Injection Method On The Waters Xevo™ Tq Absolute;*

Air Monitoring
➢ *Mgaprime H_2 – Precise Measurement Of Hydrogen Concentration In Flue Gases;*
➢ *Retired Stonemason Highlights Dangers Of Working In Dusty Environments Without Real – Time Monitoring;*
➢ *Identifying An Invisible Threat of Climatic Conditions – Through Air Quality Measurement And Emission Mitigation;*

Water/ Wastewater

    ✓ *Monitoring The Seabed – The Subtle Distinction;*

- **Will it improve the accuracy of a design, or provide new information to assist in a design problem?**

    - Operational Design Models will improve the accuracy once designed to provide the latest information, which will assist and enhance the design to resolve the problem with innovative and pioneering solutions.

    - Weather OR Climate Prediction Models as a Tool will be used to analyze the Local/ Regional and State Level Climatic Weather Pattern;

    - Many Scientists have found that from 1900 – 2020, the world's surface air temperature increased an average of 1.1° Celsius (nearly 2°F) due to burning fossil fuels that release carbon dioxide and other greenhouse gases into the atmosphere. This may not sound like very much change, but this warming is unprecedented in over 2000 years of records. Even one degree can impact the planet in many ways. Climate models predict that Earth's global average temperature will rise an additional 4°C (7.2°F) during the 21st Century if greenhouse gas levels continue to rise at present levels. Without swift action to reduce greenhouse gas emissions, models project that holding global average temperatures to within a 1.5 – 2.0°C (2.7 – 3.6°F) increase may no longer be possible.

    - Warmer temperatures will cause (and are causing) changes to other aspects of Climate Constraints – such as rain, snow, and clouds. They are also causing changes to the ocean, life, ice, and all other parts of the Earth and its Natural Eco – System.

- **List all other benefits.**

Benefits of Predictive Modeling:

    - Predictive modeling is also known as predictive analytics. Generally, the term **"Predictive Modeling"** is favored in academic settings, while **"Predictive Analytics"** is the preferred term for commercial applications of predictive modeling.

    - Successful use of predictive analytics depends heavily on unfettered access to sufficient volumes of accurate, clean, and relevant data. While predictive models can be extraordinarily complex, such as those using decision trees and k – means clustering, the most complex part is always the neural network; that is, the model by which computers are trained to predict outcomes. Machine learning uses a neural network to find correlations in exceptionally large data sets and **"To Learn"** and identify patterns within the data.

    - In a nutshell, predictive analytics reduce time, effort, and costs in forecasting business outcomes. Variables such as environmental factors, competitive intelligence, regulation changes, and market conditions can be factored into the mathematical calculation to render more complete views at relatively low costs.

    - Examples of specific types of forecasting that can benefit businesses include demand

forecasting, headcount planning, churn analysis, external factors, competitive analysis, fleet and IT hardware maintenance, and financial risks.

➕ Predictive modeling, also known as predictive analytics, and machine learning are still a young and developing technology, meaning there is much more to come. As techniques, methods, tools, and technologies improve, so will the benefits to businesses and societies.

➕ Understand and deploy the technology now and then grow the business benefits alongside subsequent advances in the technologies.

Biography of presenting author (should not exceed 100 words):

Dr. Harish Kumar Gupta Studied Environmental Engineering Science, Meteorology, Civil Highways, and Construction Technology @ RGPV University, Bhopal, and graduated with M.Sc. in 1996. Received Ph.D. Degree on June 28th, 2003 @ Devi Ahilya University, Khandwa Road, Indore INDIA. After **"Three Years of Postdoctoral Fellowship"** Sponsored by DST, New Delhi, under Scheme **"SERC FAST TRACK PROPOSAL FOR YOUNG SCIENTISTS – (Earth and Atmospheric Sciences)"** Worked as **"Principal Investigator/ Scientist Fellow"** @ SFSP Department, DAVV, Indore. Published more than 60 research articles in SCI (E) Journals. Obtained the position of an **Environmental Specialist** @ L. N. Malviya Infra Projects Pvt. Ltd., Head Office, Bhopal.

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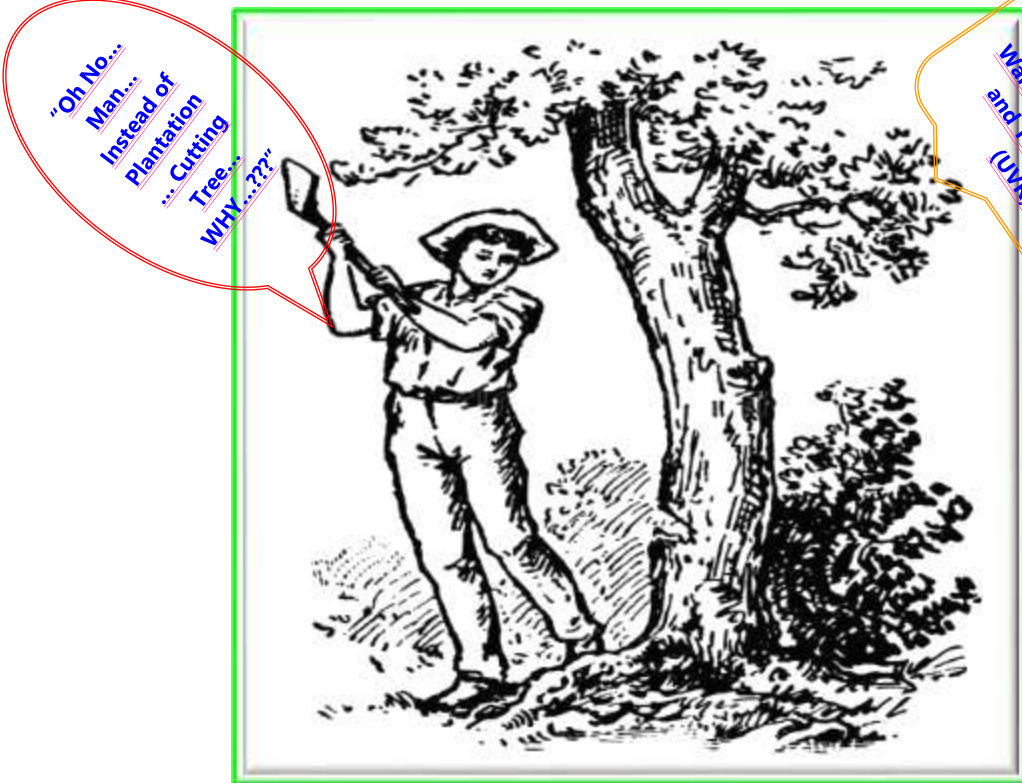
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If you feel difficulty in inserting high resolution image in word document, please send it in email;

क्या यह दोगलापन नहीं है कि इंसान पहले पेड़ काटता है और उसका पेपर बनाता है फिर उसी पेपर पर लिखता है कि "Save Trees…!!! Reduce Carbon Dioxide (CO$_2$) Emission, "Global Warming", Climate Change and Temperature Rise (UVR)…!!!"?

☞☞☞ इनसान जो करता है, उसे करने दो। उसकी बुराई मत करो। ☞☞☞ इनसान सब कुछ सुन सकता है। लेकिन अपनी बुराई नहीं सुन सकता। चाहे दोगलेपन वाली हो या अकेलेपन वाली। ☞☞☞ वैसे इस दिशा में अभी तक तुम्हारा क्या योगदान रहा है? ☞☞☞ तुमने कितने पेड़ लगाए हैं अभी तक? ☞☞☞ शायद एक भी नहीं न? चलिए अब लगा दो एक। Image…!!!

Sr. No.	Description		Remarks
1.	Theoretically As Already, Everyone Knows About Our Eminent Scientist Albert Einstein's Formula...!!! *e.g.,* $E = M \times C^2 = GW \times C^2$ **Environment = *Materials* × *Global Warming* × *Weather Change*** **= TOTAL... CLIMATE CHANGE... GLOBALLY...!!!** Indeed, Seriously in Forthcoming Days... A Day Will Come... When All Together... We will have to Follow and Initiate the Newly Constructed Approachable/ Certainly Applicable Modified Formula...!!! Which would Mostly be Concerned and Related to Our Preciously – Heavenly – Sustainable Environment "The Living Paradise The Planet Earth" and it's Surrounding Natural Eco – Friendly Environmental Kingdom is depicted below: **Environment = Materials** *(In Terms of Non – Recycled Hazardous/ Polluted Wastes)* × **Climate Change** *(In Terms of Green House Effect,* **Global Warming {GW}** *Causing Generation of More Deadly Bacteria as well as Dangerous Viruses Such as COVID – 19 VS Monkey Pox, Ebola etc. And Increasing Abruptly Unlamented/ Unprecedented Temperature Rise Day by Day).*		**Suggested Most Burning Topic on "Environmental Mechanism"**

SAVE/ PRESERVE/ CONSERVE... OUR FANTASTIC AND ECCENTRIC SHAPES' OF "NATURAL ECOSYSTEM AND ATMOSPHERIC ENVIRONMENT" EXISTING ON THIS HEAVENLY CREATED PARADISE ON THIS PLANET "THE EARTH"...!!!