Mainstreaming SDG's in Education: Building Partnership through Smart Campus Cloud Network (SCCN)

Roundtable Consultation

Summary Report

18th May 2019, SRMIST Chennai



















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I. INTRODUCTION

A roundtable consultation was held in SRMIST, Chennai on 18th May 2019 on *'Mainstreaming SDGs in Education by Building Partnership through Smart Campus Cloud Network (SCCN)'*. This was the first regional roundtable convened by TERRE Policy Centre under its SCCN project in cooperation with the SRM Institute of Science and Technology – SRMIST (formerly known as SRM University) and the United Nations Educational, Scientific and Cultural Organization (UNESCO). SCCN is aimed at promoting awareness and contribution of United Nations Sustainable Development Goals (UN SDGs) in the college/university campuses.

The objective of the roundtable was to deliberate on the SCCN project and its linkages with UN SDGs. Mainstreaming SDGs in the Indian education system has been prioritized by the Government of India. With this in view, the roundtable also aimed at sharing the progress of the activities undertaken by various institutes in South India and getting the suggestions from the high-level representatives of the educational institutes. The other objective was to agree on nominating a Southern hub for education on Sustainable Development through SCCN. The meeting successfully brought the 10 Vice Chancellors and 25 Deans and Directors of colleges/universities of Southern India. The roundtable consultation was followed by a wellattended press conference led by the SRMIST Chancellor *Hon. Dr. T R Paari Vendhar*.

This report provides a summary of the discussions and the suggestions emerged from the meeting.

* SRMIST is a registered member of SCCN. The SCCN core group meeting was organized on 17th May 2019 under the leadership of Dr. Kantha Deivi Arunachalam, Dean – Center for Environment Nuclear Research. The case studies of initiatives related to environment and sustainability were presented by the various department of SRMIST. A separate report is being prepared for the same.









II. SUMMARY

Approximately, 45 participants of the renowned colleges/institutes/ universities from South India actively interacted in the meeting.

Prof. Bhushan Patwardhan, Vice Chairman of UGC chaired the roundtable consultation, who moderated the entire consultation and ensured free discussion.

Before the meeting, a symbolic ceremony of tree plantation at the hands of Prof. Bhushan Patwardhan took place. It provided the message of 'Planting the Future'. Mr. Rajendra Shende, Chairman TERRE Policy Centre and Prof. Sandeep Sancheti, Vice Chancellor of SRM and other dignitaries in the SRMIST also planted the trees. The trees would now be considered as the monument of the Sustainable Development Education.

Forenoon Agenda:

The first session commenced with the welcome note by **Dr. N Sethuraman**, Registrar SRMIST and round of brief introduction of all the participants. For the opening remarks, *Prof. M Sundaresan* - Regional Officer & Assistant Director AICTE read out the special message by **Prof. M P Poonia**, Vice Chairman AICTE, who could not participate due to his other schedules. (Please see the message of Prof Poonia in Annex 3)

Mr. Bhanu Neupane, Programme Manager UNESCO expressed his best wishes and support to the participants of the roundtable consultation. For video message, please follow the link: <u>https://youtu.be/awcA7wApOFs</u>

Mr. Rajendra Shende, Chairman TERRE Policy Centre and Former Director UNEP expalined the fast expanding network of Smart Campus and talked about its linkages to the UN SDGs, elaborating the benefits that students and colleges can expect from the project. He further emphasized on shifting from traditional way of sharing information through seminars to digital platforms and cloud dashboards. SCCN provides a cloud-based dashboard (<u>smartsen.se</u>) to track real time monitoring data of resource consumption









such as, energy, water and fuel/carbon emission. He also informed about the individual university pages on the SCCN website (<u>sccnhub.com</u>) for all registered institutes to promote and enhance dialogues, and share vital information on their contribution among colleges across the world. Other innovative ideas that he explained, are calculation of carbon footprint and carbon trading that is aimed at carbon neutrality. "Organizing SDGs related Hackathons would further bring youth together with common vision", he added.

Prof. Bhushan Patwardhan, Chairman UGC acknowledged the critical importance of making sustainable development as an axis of the modern education and backbone of achieving Sustainable Development Goals (SDGs). He delineated the efforts of Ministry of HRD and UGC, in particular for making SDGs as the seminal feature of delivering and incentivizing the future education.

He went on to emphasize the role of digital technology and use of the tools like SCCN. He appealed to all the universities to join the network to begin the new journey towards sustainable development. He indicated that from the next academic session, the SCCN activities should be undertaken in the university campuses. UGC will support such initiatives that ensures student and the faculty involvement with conceptualized and organized approach. Exhibition and information-sharing events in the SDGs-hackathon can also be organized. He congratulated all the participants for their interest and enthusiasm in participating in the roundtable.

Prof. Sandeep Sancheti, VC SRMIST underlined that though Indian universities have progressed so much, there is a need to study the important lessons from the top -ranked universities on environmental and sustainability area. These lessons point out to the fact that the education needs to be oriented towards the respect of ecology and monitoring the conservation and sustainability by deploying modern technology.









Afternoon Agenda:

Following the opening statements, participants discussed the various initiatives taken by their campus. To strengthen their approach towards sustainability, following were the important suggestions and discussions of the session;

- Initiating net zero emissions activities in campus that starts by audit, identifying the areas for efficient operations (example, shift from CFLs to LEDs for 10-20% more energy efficiency, installation of five star rated A.Cs or appliances for 20-25% more efficiency and putting up new fans for 35% more efficiency). These measures also reduce the operational costs for the campus.
- Finding out to what extent the renewable energy can be generated in the campus.
- Calculating transport emissions CNG, e-vehicle, hybrid vehicles would provide the quantification of the carbon footprints.
- Approaching business leaders, who are environmentally conscious and sustainability experts. The Vice chancellors can develop a strategic model that gives a win-win opportunity to business leaders (for instance, Anand Mahindra) for e-vehicle demonstration in order to stop fossil fuel vehicles in campus.
- Creating a carbon sink within or outside the campus by increasing the green cover and creating more of a natural environment.
- Campus-Sustainability mechanism needs to be formulated. Laying down of the priorities, roadmap, forming a core-team, managing funding and operationalizing the schemes with sustained monitoring would be the key steps. UGC should be consulted and requested for the support.
- Dr. Gurmeet Singh, VC Pondicherry University indicated the 'shared research' mechanism. Sharing of resources will enable universities to do cost effective research and help in achieving our goals faster and efficiently. SDGs need to be taken as a policy in the universities and must be put in practice as fast as we can.
- Use of digital platforms e.g., Digilocker, Cloud dashboards would help in making work of students and faculty easy and leaving them with more time for research.









- Internships for students with organizations working on UN SDGs, specifically NGOs, should be encouraged.
- Skill building programs need to be introduced with speed and scale. It will help in providing the practical background, preparing students on a practical ground and bringing more innovative ideas from students and faculties. Legal education on ecology, sustainability and related area should be streamed in the campuses (basic to advanced).
- Chettinad Academy of Research & Education have demarcated an area beyond which the fossil fuel vehicles are not allowed inside the campus. They have their own battery-operated vehicles except, the hospital area. They also follow paperless approach and use digital platforms for all admin related work. Most of the campuses use ERP, which has helped them to have effective way of data management.
- Use of bicycle within the campus needs to be encouraged and even glorified, in a sense that it gives them a pride of being sustainable.
- Increase the participation in and linkages with Swachh Bharat Mission
- Canteens and all the events in the campus should be plastic free.
- Facilities for differently-abled students, faculty and staff are also part of the SDGs under 'no one should be left behind'.
- Funds that campuses get from any sources (including, UGC) should follow diligence, surveillance and regular evaluation to maintain the accountability and sustainability.
- Sustainable practices followed by other campuses were highlighted. SCCN registered Symbiosis School of International Business (SIIB), has set a practice that allows the real time energy monitoring data from a cloud dashboard to be communicated to all the students and faculty every day. The core group then facilitates measures to reduce the unnecessary peaks of the energy.









III. RECOMMENDATIONS

Participants made a number of practical suggestions on how SDGs can be implemented in the educational campus. Participants made following suggestions and recommendations;

- Strengthen the network of educational and sustainability experts. SCCN should explore setting such network as a part of SCCN.
- Explore the possibilities to seek funds from Business under CSR and UGC for efficient implementation of sustainable development activities in campuses.
- Organize SDGs related hackathon regionally in the campus.
- Organize a conference of all SCCN registered campuses, inviting the nonmembers too.
- Set up regional hubs for better outreach and coordination of the activities.
- Even non-members should have a network participation.
- Create incentives for students and faculties who participates in SCCN activities.
- A short film (not more than 5 minutes) of the roundtable can be released that will outreach the objectives of the same. A special screening can be organized to create awareness. Anna University and SRMIST volunteered for making the short film.
- SRMIST could be the SCCN Southern hub for first 3 years, followed by Anna university for next 3 years to promote regional sharing. Such rotational pattern will provide an opportunity to lead the activities.
- Prepare a roadmap categorizing immediate, mid and long-term plan for Smart Campus.
- In all the activities, students' engagement is necessary. It will also help in their skill building activities and preparing students on SDGs related issues.
- Sharing of information among the campuses should encourage a positive competition that helps not only in the growth of one campus but learning of another campus as well.
- TERRE should prepare a guideline or a framework for the regional hubs for SCCN.
- The ranking of the Universities should include, the sustainability and smart activities that contribute to SDGs.
- Consider separate ranking of the Universities based on Smart and Clean campus.
- UGC, AICTE and MHRD should support Smart activities in terms of guidance, resources and funds.









ANNEX 1: Concept Note

Roundtable Consultation on "Mainstreaming SDGs in Education by Building Partnership through Smart Campus Cloud Network (SCCN)"

Organizers: SRM University and TERRE Policy Centre Date: 18th May 2019

Background:

Smart Campus Cloud Network (SCCN) is a network of universities and a tool to mainstream United Nations Sustainable Development Goals (SDGs) in the current education system. The network promotes the exercises of 'learning by doing' within the campus. More importantly, the network encourages the campus communities to deploy the digital technologies like IoT (Internet of Thing), AI (Artificial Intelligence), Cloud-networking, Machine-to-machine learning and Block chain to optimise use of energy, water in campus and catalyse effective waste management, sustainable transport, air pollution and nature conservation.

The network is founded by TERRE Policy Centre, a not-for-profit organization. UNESCO-Paris has supported SCCN through its Knowledge Society Division. Presently 60+ universities and colleges are the registered members of SCCN, including those from Portugal, Peru, Brazil, Japan, Bhutan, USA and China.

Indian Context:

University Grant Commission (UGC) of India and All India Council of Technical Education (AICTE) is quite appreciative of SCCN. UGC has written to all the universities that : "*The Network is poised to facilitate dialogue and sharing of ideas amongst students and faculty as a way of making the maximum out of SDGs. Needless to say, this will be a significant contribution to the realization of Smart Cities and Smart India mission*"

During the 2018 EPSI conference, Director General of AICTE, released the guidelines for SCCN and identified the importance of engaging the students









and faculty in SCCN activities to remain ahead of technology curves and to contribute to United Nations SDGs.

SCCN brings SDGs in focus and makes it building block of the education system and key pillar to build the career of tomorrows policy makers and entrepreneurs. It promotes deployment of front-end digital technologies like IoT, Big Data, AI, Block Chain and cloud networking within the campus to give hands on skill building in latest technologies.

Proposal:

It was considered important to arrange a day long consultative meeting in SRM Chennai to discuss the objectives, process of SCCN and its essential features that would benefit education system and career of students. The opportunities that open for the youth to mainstream SDGs in their career would need close interaction among the educational institutes and other stakeholders.

Expected outcome:

The consultations are expected to:

- 1. Provide the current status of SCCN and discuss its prospects.
- 2. Collate information on on-going activities of the universities on SDGs.
- **3.** Identify the additional projects within SCCN, like *carbon Neutral university campus, climate pioneer partnership of universities*
- **4.** Get suggestions on the need for additional features of SCCN from the participants
- 5. Recognise the advantages of networking with other universities on SDGs and Climate Change to trigger innovations and entrepreneurship.
- 6. Discuss the possibility of university ranking based on sustainability and annual sustainability reports of campuses.
- 7. Collate the suggestions from the universities

Participants:

- About 15-20 university representatives, preferably chancellors and experts.
- UNESCO-New Delhi, who are knowledge partners in SCCN
- 2-3 representatives from AICTE, EPSI and UGC/HRD Ministry \









Moderators: Rajendra Shende, Chairman TERRE Policy Centre and Dr. Sancheti, VC SRM

Date for consultation: 18th May 2019

Venue: Dr. Venkatraman Ramakrishnan Hall, 15th Floor, UB Building, SRMIST

Additional Notes :

TERRE Policy Centre (<u>www.terrepolicycentre.com</u>**)** is a non-profit, nonpartisan and independent organization dedicated to sustainable solutions to our developmental imperatives. TERRE also is the abbreviation for 'Technology, Education, Research and Rehabilitation for the Environment.' TERRE strives to reach all strata of society, particularly the young generation and people at the bottom of the pyramid with capacity building tools on energy and food security. Its motto is: "To think is good but to act is better".

SRMIST (<u>http://www.srmuniv.ac.in</u>) SRM Institute of Science and Technology (formerly known as SRM University) is one of the top ranking universities in India with over 38,000 students and more than 2600 faculty across all the campus, offering a wide range of undergraduate, postgraduate and doctoral programs in Engineering, Management, Medicine and Health sciences, and Science and Humanities.

END









SmartCampusCloudNetwork

ANNEX 2: Agenda









Roundtable Consultation – Forenoon Agenda Mainstreaming UN Sustainable Development Goals (SDGs) in Education and Building Partnerships through Smart Campus Could Network (SCCN)

Date: Saturday 18th May 2019; Time: 10:00AM to 1.00PM Venue: 15th floor, Dr. Venkatraman Ramakrishnan Conference Hall, UB Building

Facilitator: Mr. Rajendra Shende, Chairman TERRE & Dr. Kantha Arunachalam, SRMIST

10:00 AM	Registration
10:00 - 10:30 AM	Arrival at the Tree Plantation site and Tree plantation at the hands of UGC, AICTE, TERRE & SRMIST
10:30 - 10:35 AM	Welcome by Dr. N. Sethuraman, Registrar, SRMIST
10:35 - 10:45 AM	Felicitation and Introduction of Higher education Institutes and representatives from UGC, AICTE, UNESCO and TERRE by Mr .Rajendra Shende
10:45 - 10:50 AM	Introduction of SRMIST and sustainable activities by Dr. Sandeep Sancheti, Vice Chancellor SRMIST
10:50 - 11:05 AM	Lead Remarks by Prof. Bhushan Patwardhan, Vice Chairman UGC
11:05 - 11:20 AM	Lead Remarks by Prof. M P Poonia, Vice Chairman AICTE
11:20 - 11:30 AM	UNESCO-Paris (video message) Bhanu Neupane, Programme Manager
11:30- 11:45 AM	High Tea
11:45 - 12:00 PM	UN Sustainable Development Goals and Smart Campus Cloud Network (SCCN) by Mr Rajendra Shende, TERRE
12:00 - 1:00 PM	Moderator: Prof Bhushan Patwardhan Vice Chancellors and Representatives to share the activities currently implemented by their college/university on SDGs
01:00 -01:45 PM	Lunch – SRM Hotel







Cultural Organization

SRM INSTITUTE OF SCIENCE & TECHNOLOGY (Xound to be University w/s J of UCC Act, 1980)













Roundtable Consultation – Afternoon Agenda

Mainstreaming UN Sustainable Development Goals (SDGs) in Education and Building Partnerships through Smart Campus Could Network (SCCN)

Date: Saturday 18th May 2019; Time: 1:45PM –4:00PM Venue: 15th floor, Dr.VenkatramanRamakrishnan Conference Hall, UB Building

Facilitator: Mr.Rajendra Shende, Chairman TERRE & Dr. Kantha Arunachalam, SRMIST

1:45-2:30 PM	Moderator : Prof Bhushan Patwardhan Round Table: VCs/representatives suggestions on implementation of UN SDGs in universities / colleges and campuses
	 Nomination of SCCN Hub for Southern India Preparation of a roadmap to start active SCCN engagements in Southern India
2:30 - 2:45 PM	Conclusion by UGC and AICTE
2:45 - 2:50 PM	Vote of thanks
2:50 - 3:05 PM	High Tea
3.05 -4:00 PM	Campus Tour- SRMIST









ANNEX 3: Message from Prof. M P Poonia

Greetings of the Day!!

Dr. Rajendra Shende, Chairman TERRE ; Prof. Kantha Deivi Arunachalam, Dean, Centre for Nuclear Research of SRM Institute of Science and Technology and delegates at today's forum on **"Mainstreaming SDGs in Education and building the partnership through Smart Campus Cloud Network (SCCN)'.**

We are living in a world of change with a future of more technological advancements and gadgets to make our life simple. By 2030, India will be amongst the youngest nations in the world. Our country, with nearly 140 million people is in the college age going group who need to be equipped to meet the latest challenges in the global scenario.

The concept of SCCN is really appreciable designed to harness the abilities of the young and innovative minds of the students and the wisdom of the academic institutions. AICTE under its ambit has more than 10000 technical institutions in the country out of which approx. 6300 are engineering institutions with an intake of about 27 lakhs students. Such institutions have good infrastructure facilities for dissemination of engineering education.

The Sustainable Development Goals set by UNESCO are extremely important and inevitable for our future generations. Each step today in this direction to safeguard and avoid exploitation of natural resources will fight the risk of depleted resources in the times to come. It will be a transformation for a society by becoming a more responsible citizen of the country.

In this connection, I wish to add that **'Perspective Plan – on Engineering Education in India'** by AICTE shows a clear trend towards software, healthcare, medical devices and semiconductor industry. They also clearly indicate that Artificial Intelligence (AI), Internet of Things (IoT) embedded SW, internet SW, mobility, analytics, and cloud are growing at a rapid pace as compared to









traditional technologies. The results of the NASSCOM - BCG study and FICCI-NASSCOM-EY study also concur with this trend and analysis.

In January 2019, AICTE, Engineering Council of India (ECI), and the Indian Society for Technical Education (ISTE) have jointly held a competition "AICTE-ECI-ISTE Chhatra Vishwakarma Awards" for the students of AICTE approved Degree & Diploma level Technical institutions. The Awards aimed for motivating young individuals, inspiring leaders and institutions/ organizations to raise their performance in their specific domains leading to significant contribution towards the growth and development of the nation. This year 2019, the theme was **"Empowerment of Villages through Technologies".** The holistic development of villages under this theme for villages focussed on Water & Irrigation; Sanitation & Solid Liquid Waste Management; Rural Infrastructure; Tourism; Agriculture & Food; Education, Skill Initiative & Start-ups; Rural Craft & Livelihood.

Smart India Hackathon-2019 was another nationwide initiative to provide students a platform to solve some of pressing problems we face in our daily lives, and thus inculcate a culture of product innovation and a mindset of problem solving. The last edition of the hackathon saw an overwhelming response 5 million+ students from various engineering colleges compete for the top prize at 35+ locations during March 2-3, 2019.

AICTE has already instituted the Clean and Smart Campus Awards -2019 for institutes to develop solution by innovative use of technology that can render the campus of an institute to be clean and smart. The Clean Campus aspect includes cleanliness in and around the campus and waste minimization; environment friendly activities adopted and practices by the campus; greenery within the campus to provide pollution free air.

Smart campus envisages impact of deployment of digital technology for the students, faculty and management in the campus to reduce consumption of natural resources. Alignment of the latest digital trends like IoT, Big Data to









achieve various aspects of sustainability in the campus, create an ecosystem to smartly connect and share the information with each other at campus.

We all understand that training is crucial for enhancing knowledge and skills of students to make them more employable to acquire global competencies. Establishment of AICTE Training And Learning (ATAL) Academies at Jaipur, Vadodara, Thiruvananthapuram and Guwahati to conduct series of Training Program for faculty in Artificial Intelligence, Robotics, Blockchain etc. has already been initiated. The ATAL Academies will support technical institutions in fostering research, innovation and entrepreneurship through training using Information & Communication Technology. AICTE also emphasizes to utilize SWAYAM platform and other resource for the delivery of trainings.

AICTE has also recently released the Model curriculum of courses at UG level in emerging areas viz. AI, Cybersecurity. Robotics, Block Chain, IoT, Data Sciences/ Big Data Analytics, Augmented Reality/Virtual Reality. However, to be able to cater to the next-generation of engineering skill requirements, we need to facilitate quality and accredited technical education at scale.

I congratulate Dr. Rajendra Shende, Prof. Kantha Deivi Arunachalam for having this forum and am hopeful today will have some excellent exchange ideas on latest tools and synergize for solving the complex problems.

With best wishes,

Thanking you (Prof. M.P. Poonia) Vice Chairman









ANNEX 4: List of Participants

- 1. Prof. Bhushan Patwardhan, Vice Chairman, UGC
- 2. Dr. M P Poonia, Vice Chairman, AICTE
- 3. Mr. M Sundaresan, Regional Officer & Assistant Director, AICTE
- 4. Mr. Bhanu Neupane, Programme Director, UNESCO
- 5. Mr. Rajendra Shende, Chairman, TERRE Policy Centre
- 6. Ms. Dinah Gengmei, Project Leader, TERRE Policy Centre
- 7. Prof. Gurmeet Singh, Vice Chancellor, Pondicherry University
- 8. Prof. Dr. M Krishnan, Vice Chancellor, Madurai Kamaraj University
- 9. **Dr. V Kanagasabai,** Vice Chancellor, Bharath Institute of Higher Education & Research
- 10. **Dr. C Balachandran,** Vice Chancellor, Tamil Nadu Veterinary & Animal Sciences University
- 11. Dr. Harikrishnan T J, Director, Tamil Nadu Veterinary & Animal Sciences University
- 12. Dr. John Kirubaharan, Dean, Tamil Nadu Veterinary & Animal Sciences University
- 13. Prof. Dr. Rajesh Siddavatam, Vice Chancellor, Saveetha University
- 14. Dr. R Perumalsamy, Vice Chancellor, Noor Islam Centre for Higher Education
- 15. Dr. G Annadurai, Vice Chancellor, Manonmaniam Sundarnar University
- 16. **Dr. K Sankaranarayanasamy,** Director, National Institute of Technology Puducherry
- 17. Prof. V S S Kumar, Chairman, NITTR
- 18. **Dr. A Azad,** Registrar (Vice Chancellor Nominee), Crescent University (B S Abdur Rahman University)
- 19. **Dr. R Raja Prabu,** Director, Crescent University (B S Abdur Rahman University)
- 20. Dr. A K Kalil, Deputy Director, Crescent University (B S Abdur Rahman University)
- 21. Dr. Karlmarx, Dean Incharge, Tamil Nadu Fisheries University









- 22. **Dr. Kanthaswamy,** Dean Agriculture Science, Pandit Jawaharlal Nehru College of Agriculture & Research Institute
- 23. Dr. Aruna Shanmuganathanm Professor Respirator Medicine, Chettinad Academy of Research & Education
- 24. **Dr. G Padmavathi,** Professor, Avinashilingam Institute for Home Science & Higher Education for Women
- 25. Dr. Kumar, Registrar, Anna University
- 26. Dr. Shastri, Ambedkar Law College
- 27. Prof. Sandeep Sancheti, Vice Chancellor, SRMIST
- 28. Dr. N Sethuraman, Registrar, SRMIST
- 29. Dr. R Balasubramanian, Pro Vice Chancellor External Affairs, SRMIST
- 30. Dr. C Muthamizhchelvan, Director (Engineering & Technology), SRMIST
- 31. Prof. S R S Prabaharan, Joint Director (Research), SRMIST
- 32. Prof. kantha D Arunachalam, Dean (Center for Environmental Nuclear Research), SRMIST
- 33. Dr. T M Thiyagarajan, Dean (Agricultural Sciences), SRMIST
- 34. Dr. B Neppolian, Dean Research, SRMIST
- 35. Dr. A Sundaram, Dean Medical, SRMIST
- 36. Dr. John Thiruvadigal, Dean Sciences, SRMIST
- 37. Dr. K Vaithianathan, Director Sports, SRMIST
- 38. Dr. D Antony Ashok Kumar, Director, Hotel Management SRMIST
- 39. Dr. Leenus Jesu Martin, Director, Campus Life SRMIST
- 40. Prof. V Thirumurugan, Associate Director Campus Life, SRMIST
- 41. Prof. G Augustine Maniraj Pandian, Dean IQAC, SRMIST
- 42. Dr. Michael J Barnes, Director Management, SRMIST
- 43. Dr. Padma Venkat, Dean SPH, SRMIST
- 44. Dr. Rupa Nagarajan, Academic Officer, SRMIST
- 45. Dr. Subburam, Associate Director, SRMIST









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ANNEX 5: Key Photographs



Tree plantation by Prof. Bhushan Patwardhan



Tree plantation by Mr. Rajendra Shende









SmartCampusCloudNetwork



Tree plantation by Dr. N Sethuraman



Tree plantation by Dr. Sandeep Sancheti



'Planting the Future' campaign launched at SRMIST







SRM INSTITUTE OF SCIENCE & TECHNOLOGY (Xound to be University w/s J of UCC Act, 1989)





Video message of Mr. Bhanu Neupane



Introductory remarks by Prof. Bhushan Patwardhan









SmartCampusCloudNetwork

United Nations Educational, Scientific and Cultural Organization



Prof. M P Poonia's message being read by Mr. M Sundaresan



SCCN presentation by Mr. Rajendra Shende







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SmartCampusCloudNetwork

United Nations Educational, Scientific and Cultural Organization



Participants of Roundtable Consultation







Educational, Scientific and

Cultural Organization



SmartCampusCloudNetwork



Press Conference

L to R: Mr.Rajendra Shende, Dr. N Sethuraman, Dr. T R Paari Vendhar, Prof. Bhushan Patwardhan, Dr. Sandeep Sancheti & Dr. Kantha Deivi Arunachalam



News in Press

https://chennaipressnews.blogspot.com/2019/05/mainstreaming-sustainabledevelopment.html

http://www.nba24x7.com/2019/05/18/srmist-and-terre-policy-centre-organised-a-roundtable-consultation/

https://www.youtube.com/watch?v=ZVwpB4XT1rw&feature=youtu.be

DEVELOPMEN **SUSTAINABI**

