PEAKS
THE PKC NEWSLETTER

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PUNE KNOWLEDGE CLUSTER

Established by the Office of The Principal Scientific Adviser, to the GoI under The City Knowledge & Innovation Cluster Initiative (CKIC), the Pune Knowledge Cluster aims to bring together Academic Institutions, R&D organizations, Industries, NGOs, Civic Bodies, Local & State governments to collectively work for the betterment of Pune City by leveraging the science & technology capabilities of its partner organizations.

From The PKC Desk

"Greetings, Readers"

We are back with the next issue of PEAKS – PKC's Quarterly Newsletter! In this issue, we highlight key milestones from PKC's journey from October to December 2025.

The **Cover Story** features our program, **Advancing India's Fight Against Antimicrobial Resistance through a Cluster Approach**. The **Sneak Peak** section gives the reader a peek into **WEnyan Scholarship & Mentorship Program 2025–2026 Cohort Highlights.** In this issue, we are also **In Conversation** with **Shannon Olsson, Founder and Global Director, The echo network**.

The section **Innovations in Action** showcases **Ishitva**, advancing the circular economy through AI-powered recycling solutions that enable high-precision sorting and impurity detection in mixed waste streams.

In this issue, the readers will also get an overview of the Events that PKC has organised and important partnerships that PKC has fostered within the last quarter.

Happy reading!

Issue available at
https://www.pkc.org.in/resources/newsletter/
Or Scan the QR Code

In This Issue

Cover Story

Advancing India's *Fight Against Antimicrobial Resistance through a Cluster Approach*

Antimicrobial Resistance (AMR) is among the most complex and urgent public health challenges of our time. It transcends boundaries between human health, animal health, and environmental systems—demanding responses that are equally integrated and systemic. Recognising this, the Pune Knowledge Cluster (PKC) has been actively strengthening India's response to AMR through a cluster-based, multi-stakeholder approach rooted in scientific evidence and collaboration.

Anchored in the One Health framework, PKC's AMR initiatives bring together academia, public health institutions, government agencies, industry partners, and civil society. The emphasis has been on moving beyond isolated interventions—translating research into practice while strengthening surveillance, capacity, and coordination at multiple levels of the system.

Translating Collaboration into Action

PKC's work on AMR has focused on building interconnected capabilities that reinforce each other:

- **Capacity building and training** of public health professionals and medical students to improve surveillance, diagnosis, and reporting of AMR.
- **Strengthening surveillance systems** by supporting data-driven approaches and fostering collaboration between laboratories, health departments, and research institutions.
- **Stakeholder convergence**, ensuring that solutions emerge from collaboration rather than working in silos.

Through sustained partnerships with government bodies, healthcare institutions, research organisations, and industry, PKC functions as a **knowledge bridge—connecting research, policy, and on-ground implementation.**

Voices from the Field: Why the Cluster Approach Matters

The value of this approach is best reflected in the experiences of practitioners and researchers working across different AMR contexts.

> *"Our work with AMR in urban wastewater has thrown up several questions that can only be addressed through a truly collaborative framework encompassing evolution, chemistry, computer science, genomics and social science. Cluster based work models are not just useful, but essential when contextualising AMR in human health and populations."*
>
> — **Dr. Laasya Samhita.**
> *Assistant Professor of Biology, Ashoka University, Sonipat*

> *"In 2026, India is advancing its antimicrobial resistance (AMR) surveillance through a cluster approach integrated into the National Action Plan 2.0 (2025–2029). This approach shifts surveillance from isolated hospitals to an integrated One Health framework that monitors transmission across human (hospital), animal (livestock, fisheries, poultry), and environmental clusters (wastewater, rivers, lakes, parks). This can be achieved through Integrated One Health Monitoring, Hub-and-Spoke Laboratory Network, Genomic and Pathogen Tracking, Unified National AMR Dashboard by involving R&D labs across various ministries in a democratic and inclusive way."*
>
> — **Dr. Mahesh Dharne,**
> *Senior Principal Scientist, CSIR-National Chemical Laboratory, Pune*

> *"Currently, antimicrobial resistance (AMR) is one of the toughest challenges faced by public healthcare sector worldwide including India. Me and my team investigate this problem from the clinical standpoint, using the genomic and data-based approaches. PKC has been valuable to connect us with other groups and organizations that tackle the problem from other perspectives such as AMR in the environment and animals. These efforts have led to excellent collaborations that permit the effective approach of One-health towards AMR."*
>
> — **Dr. Shraddha Karve,**
> *Assistant Professor of Research,*
> *Koita Centre for Digital Health, Ashoka University, Sonipat*

"As the Officer-in-Charge for the NCDC's AMR surveillance project at BJ Government Medical College, Pune, I am convinced that a cluster approach is vital to India's fight against antimicrobial resistance. Our collaboration with the Pune Knowledge Cluster (PKC) and CSIR-National Chemical Laboratory has advanced hospital wastewater sequencing, enabling early detection of resistant pathogens—often months before clinical surges—and offering crucial environmental insights. This One Health model unites clinicians, researchers, industries, and government bodies, as highlighted in our 'WAR against AMR' mini-symposium during World Antimicrobial Awareness Week 2025. PKC's Wastewater Surveillance Dashboard maps real-time AMR trends in Pune's sewage, informing targeted interventions to curb antibiotic overuse. Such localized, collaborative efforts strengthen national surveillance, promote stewardship, and deliver scalable solutions to protect public health across India."

— **Dr. Rajesh Karyakarte,**
Vice Dean, Professor & Head of Microbiology at
B.J. Government Medical College & Sassoon Hospital, Pune

Together, these perspectives underscore a shared insight: **AMR cannot be addressed through isolated expertise—it requires integrated intelligence across systems.**

Aligning AMR Action with the Sustainable Development Goals

PKC's AMR initiatives are closely aligned with the **United Nations Sustainable Development Goals (SDGs),** reinforcing the role of science-led collaboration in delivering long-term societal impact.

SDG 3 – Good Health and Well-being

PKC's AMR initiatives strengthen public health systems through capacity building, surveillance support, and evidence-based interventions, contributing to safer healthcare practices and improved population health outcomes.

SDG 6 – Clean Water and Sanitation

By addressing environmental dimensions of AMR and promoting integrated public health approaches, PKC supports efforts to reduce health risks linked to sanitation, water quality, and waste management.

SDG 9 – Industry, Innovation and Infrastructure

The cluster approach fosters innovation by connecting research institutions, industry partners, and public agencies to co-create scalable solutions for AMR surveillance, diagnostics, and system strengthening.

SDG 17 – Partnerships for the Goals

At the core of PKC's work is collaboration. By convening diverse stakeholders across sectors, PKC exemplifies how partnerships can accelerate progress on complex public health challenges like AMR.

The Road Ahead:

As AMR continues to evolve as a global threat, PKC remains committed to fostering **collaborative, science-led, and systems-oriented solutions**. By combining capacity building, research, partnerships, and knowledge dissemination, PKC aims to contribute meaningfully to India's national and global AMR goals.

The AMR journey reinforces a key learning: **complex public health challenges require collective intelligence, shared ownership, and sustained collaboration**—the very ethos of the cluster approach.

In Conversation

Shannon Olsson

Ecologist, Social Innovator, and Founder & Global Director of the echo network

In this issue of PEAKS, we are *In Conversation with* **Shannon Olsson,** is an **ecologist, social innovator, and Founder & Global Director of *the echo network*.** Driven by a passion for preserving biodiversity, she has built a global community of over 2,600 members across 46 countries, connecting scientists, students, and organizations to co-create solutions for sustainable development. Through her work, Shannon is redefining how collaboration, trust, and responsibility can drive real-world impact for people and the planet.

Q 1. Could you tell us about the inception of *the echo network*. Could you explain how this idea came about and why it matters globally?

I moved to India in 2014 to study one of the most biodiverse regions on the planet. While working as an ecologist at NCBS-TIFR in Bengaluru, my lab studied a beautiful rhododendron-covered valley in the Eastern Himalayas. The next year, that paradise had become a parking lot—flowers, butterflies, and nature paved over. I remember sitting in the dirt where a rhododendron once grew and crying. That's when I realized I had a choice: continue studying biodiversity as it disappeared, or work with others to preserve it for the future.

With the encouragement of the Principal Scientific Adviser to the Government of India, we started *the echo network*—a social innovation partnership that brings people from different sectors together to listen, find shared values, and co-create solutions for sustainable development. Today, the network has over 2,600 members across 46 countries and has trained more than 150 emerging Sustainability Leaders. Through national and international collaborations, *the echo network* has also influenced policy and decision-making at multiple levels. I believe that protecting our planet isn't just about the SDGs—it's about trust, value, and responsibility. Nothing matters to others unless they trust the information, understand its relevance to their lives, and feel responsible for taking action. That's the heart of *the echo network* experiment.

Q 2. *The echo network* model emphasizes collaboration and co-creation. How does this approach work in practice when engaging with communities and network members?

The echo network's 'Communities of Practice' allows it to work towards this end. This approach emphasizes building trust among community members through understanding community needs, identifying shared values, and developing shared goals to address those community needs. In developing knowledge, community members learn from each other, co-create, and iteratively enhance solutions through regular reevaluation of the process. In this manner, scientific and technological solutions consider the social, cultural, and historical context where they are implemented.

This mission is operationalized through the echo model program, which encapsulates the network's ambition to develop a new form of STEM training. A successful pilot (2021-23) established the necessary network infrastructure, including partnerships, policies, community connections, and science and technology outputs for executing this unique collaborative model, known as "the echo model," based on the principles of Communities of Practice.

Phase one (2024-2027) focuses on demonstrating the echo model in India through three cross-sector consortia projects: Rural Livelihoods, Ecosystem Stewardship, and Clean Healthy Cities. These projects reflect the needs of over 200k voices who have interacted with us. Each consortium hosts several students at three programmatic levels: Junior Ambassadors, Senior Ambassadors, and PhD Fellows. These students work directly with network members and communities to co-create knowledge and develop business opportunities for ecosystem stewardship, agricultural sidestreams, biopackaging, disease surveillance, water circularity, and waste management.

Q 3. Observation and understanding community needs seem central to your model. Could you walk us through how *the echo network* identifies and prioritizes these needs?

The echo network model employs a combination of classic social innovation techniques such as value mapping and problem definition to gather a large number of viewpoints from different stakeholders and identify common values based on urgency and priority. Once identified, we use theory of change and other techniques in project consortia to identify mechanisms of action along with communities. Then, our students address those actions through research, outreach, and engagement. As one example, rural livelihoods are often discussed as a major concern for our communities. The lack of a consistent income has been highlighted as one of the factors contributing to livelihood insecurity. Our postgraduate Senior Ambassadors have identified a number of alternative revenue streams through agricultural residues, and our PhD fellows are developing high value products along with local value chains that can be made from this "waste". Meanwhile, our Junior Ambassadors are speaking with their home community farmers to understand what support they would need for these new income streams, and in some cases helping them to start sending their residue to local processing plants for added income. By synthesizing this knowledge, we gain a clearer understanding of how to bring these innovations to our rural communities.

Q 4. Building trust and fostering collaboration is not as easy as it sounds. How does the scientific approach help *the echo network* establish credibility and trust?

The SAGE Program is an ambitious three-tiered training and engagement experience, including a program for undergraduate students from local communities in India, an international summer school for graduate students, and a PhD training program (SAGE Fellows), all of whom are trained in collaboration with echo

network members. These activities provide essential scientific and community outcomes and a funnel for talents and knowledge into the SAGE program. Unlike traditional science and technology programs that require external entities to realize societal impact, the use of the echo network's connections to communities, organizations, and governments builds impact into the program from its inception. Specifically, each Ambassador and Fellow project was developed using a set of principles that ensure relevance and connection between the project and the needs and interests articulated by end-users in vulnerable communities. These communities are not just beneficiaries of the program but co-create the knowledge itself through bidirectional communication with experts and students. This establishes the trust, value, and sense of responsibility that lies at the heart of our mission.

Q 5. Could you share an example where *the echo network* successfully connected organizations or experts to solve a specific sustainability challenge?

With over 2600 members and 150 student alumni, we have so many stories of impact. Junior ambassadors who have enrolled families into meal programs and agriculture incentive programs, Senior ambassadors who have mapped value chains for waste management and identified gaps in urban water harvesting mandates, and Fellows who have developed prototypes for water circularity and engaged with rural households to understand sustainable nutrition strategies. But my favorite stories are those that permeate across the tiers of our program. For example, last year our Head of Research attended a meeting on water hosted by one of our network members. There, she met colleagues from Borda South Asia, who improve Basic Needs Services (BNS) in the Water and Sanitation sector. Borda then gave a tour of their work in Karnataka for our SAGE Ambassadors training program, which led to discussions on our water circularity project. Now, they are working with that consortia of partners to develop a water, nutrients and energy recovery system for decentralized water circularity that they might be able to use in their communities. This is the essence of how our network brings people together for a common purpose.

Q 6. Looking ahead, what new experiments, focus areas, or initiatives excite you most for scaling *the echo network's* model globally, and who do you consider your strongest allies and how have they impacted the network's work?

The most important output of *the echo network* experiment is our proven collaboration methodology, developed over the last 5 years. This method is turnkey, and can easily be adopted and scaled by institutions and organizations across India and the Global South for the sociocultural context where they operate. Through our collaborative model, institutions can connect their existing programs to our global operating system. Participants gain hands-on experience from global experts and directly drive on-ground impact in their local communities. When I founded the echo network, my true goal was to see it end. Not because we failed, but because organizations see collaboration as foundational to their success. In essence, we intend for *the echo network* to become the new reality, and a separate program will no longer be needed. I'm so excited to start sharing this mission with others over the next few years.

Sneak Peak

WEnyan Scholarship & Mentorship Program 2025–2026 Cohort Highlights

The **WEnyan Scholarship & Mentorship Program** continues to be a flagship initiative committed to nurturing young talent through sustained mentorship, exposure, and opportunity. Designed to support students from diverse academic and socio-economic backgrounds, the program goes beyond financial assistance to create a holistic ecosystem of learning, guidance, and professional growth.

For the **2025–2026 cohort**, we are delighted to announce the selection of **38 exceptional students** as WEnyan Scholarship awardees. These students were chosen through a rigorous selection process that assessed not only academic merit, but also curiosity, motivation, leadership potential, and a strong commitment to personal and societal growth.

With this new cohort, the WEnyan program now proudly supports a total of **124 scholars—86 awardees from previous years and 38 new** scholars this year. Over time, the program has evolved into a vibrant community where scholars engage in mentorship sessions, skill-building workshops, peer learning, and real-world exposure, enabling them to navigate academic pathways and future careers with confidence.

At the heart of the WEnyan initiative lies the belief that **mentorship can be transformative.** By connecting students with experienced professionals, industry leaders, and role models, the program helps scholars gain clarity, build resilience, and develop a strong sense of purpose. The mentorship journey empowers students to make informed choices, explore emerging opportunities, and grow into thoughtful, responsible professionals.

As the 2025–2026 scholars embark on this enriching journey, we extend our **heartiest congratulations** to each awardee. We look forward to witnessing their growth, achievements, and the positive impact they will create within their communities and beyond.

National and International Events

This section showcases events PKC has hosted to promote the building of collaborative networks and also highlights events and meetings where PKC has been invited to present its initiatives.

Events organised by PKC

1. WBCM (3 Community Outreach Sessions) | 5–16 October & 14 December 2025

WBCM, organized by Pune Knowledge Cluster, engaged communities through a series of awareness-driven events, including "Chalta Hai, Nahi Chalega" at Shivtirth Nagar, World Walking Day at Bavdhan, and a WBCM Booth at Vrindavan Banquet Hall, Kothrud. Conducted in collaboration with the Centre for Environment Education (CEE), Save Pune Traffic Movement (SPTM), and Maharashtra Metro Rail Corporation Ltd, these initiatives reached 100+ beneficiaries, promoting sustainable mobility and responsible urban behaviour.

2. WEnyan Orientation | 31st October 2025

The WEnyan Orientation for the 38 newly selected awardees marked the formal beginning of their scholarship and mentorship journey. The session introduced scholars to the program's vision, mentorship structure, and expectations, setting the foundation for a year of learning, guidance, and growth.

3. Chemamaze Workshop – Dharashiv (2 Workshops) | 13–14 November 2025

The **Chemamaze Workshops** in Dharashiv were conducted in collaboration with **Jnana Prabodhini School, Harali**, and **IIT Madras**. Spread across two days, the workshops engaged **148 beneficiaries**, offering hands-on, inquiry-driven learning experiences that sparked curiosity and strengthened conceptual understanding in chemistry.

4. SAFAL Workshop | 18th November 2025

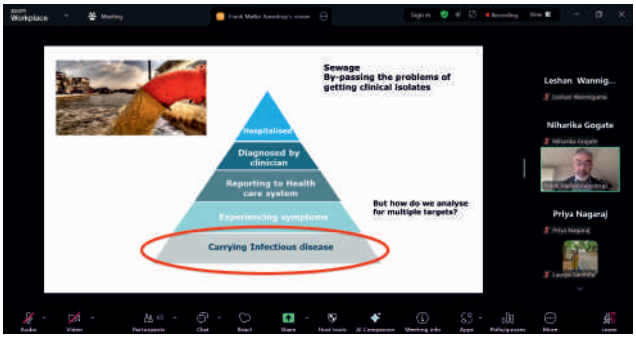
The **SAFAL Workshop** was conducted in collaboration with the **Pune Municipal Corporation** and **Social Lab Environmental Solutions**, focusing on building awareness and practical understanding around sustainable practices and community-driven environmental solutions.

5. WBCM Online Session – Persistent & Sustainable Transport Day Jan Samvad | 26th November 2025

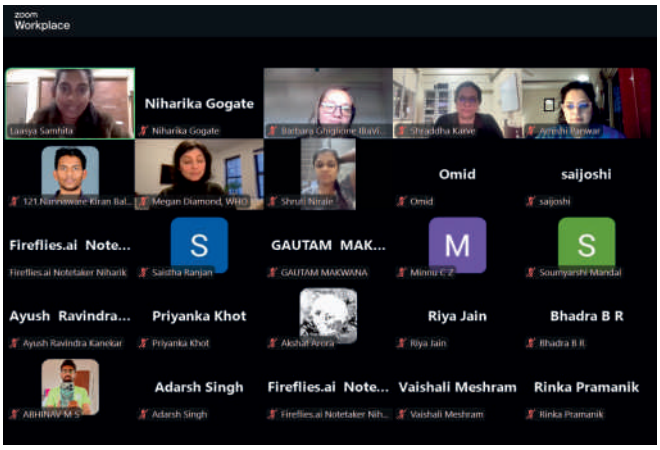
WBCM conducted an **online session at Persistent** to promote **Walk, Bus, Cycle, and Metro** and to support a **Travel Behaviour Survey**. This was followed by **Sustainable Transport Day – Jan Samvad**, creating a platform for **open dialogue between citizens and authorities** to discuss sustainable transport practices and mobility solutions.

6. AMR Workshop | 1–2 December 2025

The **AMR Workshop** was conducted in collaboration with **Ashoka University** and **CSIR–National Chemical Laboratory (NCL)**. Spread over two days, the workshop focused on building awareness and strengthening inter-disciplinary understanding of **Antimicrobial**



Resistance (AMR) through discussions, knowledge exchange, and collaborative engagement among researchers, educators, and practitioners. The workshop brought together eight speakers representing India, Japan, Denmark, the United Kingdom, and global expertise from the World Health Organization (WHO).



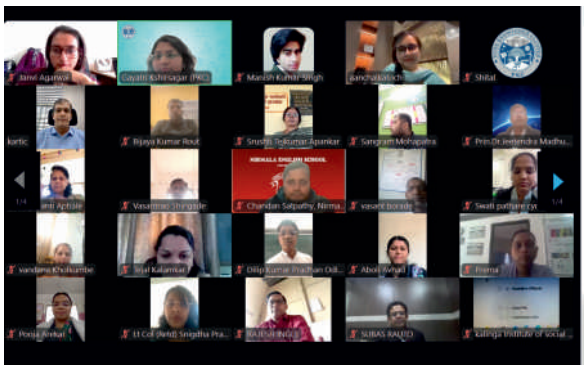
7. Launch of Solid Waste Tech Compendium | 4th December 2025

The **Solid Waste Tech Compendium** was launched at an **International Conference on Science & Technology in Delhi** in collaboration with **BCKIC**, **DRIIV**, **PI-RAHI**, **RICH**, and **Social Alpha**. The compendium highlights innovative technologies and solutions aimed at strengthening solid waste management and advancing sustainable urban practices.

8. ChemAmaze Teacher Training Workshop – Level 1 (Game-Based Learning) | 17th December 2025

The **ChemAmaze Teacher Training Workshop – Level 1** focused on **game-based learning** approaches to strengthen chemistry teaching practices. Conducted in collaboration with the **Bhubaneswar City Knowledge Innovation Cluster (BCKIC)**

and **IIT Madras**, the session was led by **Mr. Kartic Vaidyanathan**, Consultant at **Pune Knowledge Cluster (PKC)**, and equipped educators with innovative, hands-on pedagogical tools.



9. Launch Event: Capacity Building for Grassroot Workers | 19th December 2025

Pune Knowledge Cluster (PKC), in partnership with **INTOX Pvt. Ltd.**, is advancing its **SAKSHAM** and **SAFAL** programmes to strengthen grassroots of public health and sanitation. **SAKSHAM**, with NCVBDC and District Malaria Offices, has trained **1,300+ health workers** on vector-borne disease prevention, targeting **1,200 more** this year. **SAFAL**, with Social Lab Environmental Solutions and PMC, has trained **500+ Safai Karamcharis** in safety and waste segregation, aiming for **1,100 more**. Together, these initiatives support **resilient, inclusive, and disease-free cities** by empowering frontline workers.

10. WEnyan Field Visit & Mentorship Session – NCL | 19th December 2025

The **WEnyan Awardees 2025–26** visited **CSIR–National Chemical Laboratory (NCL)** for a structured field visit and mentorship session. The programme featured a session with **Dr. Dinesh** on the PhD application process, followed by guided tours of selected research facilities and the **CSIR–NCL Living Laboratory Museum**. The visit provided scholars with insights into **doctoral pathways** and the landscape of **current scientific research**.

Citizen-Centric Talks

PKC's citizen-centric talks are aimed at making science accessible to citizens and increasing scientific curiosity. They are held in a hybrid mode to ensure maximum participation. Recordings of the previous talks are available on our Youtube Channel.

Speaker: Dr. Sweta Raghavan, Head of Innovation, Strategy & Gov Affairs (India & South Asia), Royal Society of Chemistry; Advisor, Gov of Karnataka

Date: 31 October, 2025

Topic: Building professional Resilience in young women

Dr. Raghavan shared valuable insights on fostering resilience, confidence, and adaptability among young women pursuing careers in science, technology, and related fields. Drawing from her extensive experience in science and innovation policy, Dr. Raghavan highlighted the importance of evidence-based approaches, mentorship, and community engagement in strengthening the STEM ecosystem.

MoUs and Partnerships

In the last quarter, PKC has signed an MoU with Pimpri Chinchwad Science Park, IFRE, INTOX Pvt. Ltd., me-HR, Bhujal Abhiyan Trust, Climate Environmental Foundation, Tree Public Foundation, VRAT-Puranbharan Foundation.

Innovations in Action

This section showcases impactful innovations that leverage science & technology for the betterment of society.

Ishitva Robotic Systems: Ishitva is transforming the recycling ecosystem by enabling cleaner, smarter, and more profitable material recovery through AI-powered sorting and analysis technologies. Founded in 2018, the company deploys intelligent vision systems, machine learning, and automation to accurately identify and separate valuable recyclables from complex mixed waste streams—reducing contamination, improving traceability, and increasing recovery value. From small recyclers to large MRFs, Ishitva's solutions help convert waste into high-purity, traceable resources, advancing circular economy goals while delivering measurable economic impact across local and global supply chains.

To read more such Innovations in Action, subscribe to our LinkedIn Newsletter- Innovations in Action

Team Connect

1. Dr. Rupali Shivapurkar

As a Project Manager in PKC's health vertical, I leverage over 13 years of chemistry and microbiology expertise to drive impactful public health initiatives. I specialize in fostering strategic collaborations between government and academia for environmental surveillance projects. Additionally, I lead organizational efforts for key PKC events.

2.Ms. Komal Gaikwad Malik

As the Branding and Communications Manager at PKC, I lead outreach, storytelling, and public engagement, ensuring our initiatives in STEM education, public health, and sustainability reach wider audiences. I look forward to creating impactful narratives, fostering collaborations, and amplifying PKC's mission to inspire communities, institutions, and partners.

3.Mr. Ravindra Sinha

Technology professional committed to advancing sustainability in water conservation and environmental policy. I lead project implementation, foster collaborations, and build strategic partnerships to support PKC's mission of creating innovative, sustainable solutions to address challenges in the water sector.

4.Mr. Chinmay Swami

Mechanical Engineer with diverse experience across Supply Chain, Public Policy and Administration, Mechanical Design, International Business and Sustainable Mobility. My work focuses on building cross-sector collaborations, aligning technical and policy goals and enabling scalable solutions that drive innovation, efficiency and long-term sustainable impact across industries.

5.Ms. Janvi Agarwal

With a background in Astronomy and Astrophysics, I have been working in the field of astronomy and science education for nearly eight years. I currently manage the ChemAmaze project under the Capacity Building and STEM Education vertical. My primary focus is on supporting teachers and students in adopting innovative and engaging approaches to learning STEM subjects, for which we have designed a range of educational games and quizzes. In addition, my experience enables me to contribute effectively to the planning and execution of various events at PKC.

Audience Connect

Parikshit Gavhane, *Project Associate*

Working with PKC on the Nudge project has been an exceptional learning experience. Being involved in the full data lifecycle from collection and analysis to deriving actionable insights has significantly sharpened my skills. The support I receive from the entire team is invaluable, fostering an environment where I can truly grow. I am grateful to PKC for this opportunity; it marks a significant milestone in my professional journey.

Shreyas Bhadane, *Project Associate*

My biggest takeaway from the Metro Nudges Project is that urban mobility is 20% infrastructure and 80% psychology. We often assume that if we build the Metro, people will come. But my work taught me that the real challenge lies in the 'Last Mile' of the human mind—changing a daily habit. Moving beyond traditional surveys, I learned to decode the silent barriers that keep commuters on their bikes. Designing behavioral 'nudges' to overcome that friction was a masterclass in how empathy and science can solve mobility based complex city problems.

Shivam Tambe, *Dept. Of Statistics,SPPU*

As part of my On-the-Job Training, I worked with the Pune Knowledge Cluster (PKC) on the project "Behaviour Nudges for Sustainable Transportation." In collaboration with my teammate Prajwal, I designed an interactive R Shiny dashboard to study commuter travel behaviour and assess factors limiting the adoption of the Pune Metro. Leveraging survey-based data, we analyzed travel mode selection, challenges influencing metro usage, and origin–destination movement patterns to aid data-informed planning for sustainable urban mobility. This project strengthened my expertise in statistical analysis and data visualization, and provided practical insight into how analytical evidence can be used to encourage environmentally responsible commuting in Pune. I would like to express my sincere gratitude to PKC for providing me with this opportunity, and I am thankful to all the mentors who guided and supported me throughout the project.

Pune Knowledge Cluster

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