

NEW SOLUTIONS TO AIR POLLUTION

WORKSHOP TO ENGAGE YOUTH IN INNOVATION IDEATION





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INTRODUCTION:

Deteriorating air quality in urban areas especially in Asian cities is emerging as a serious health and development challenge for children. Various studies have revealed that children are experiencing increased risk of health impacts of air pollution. While countries have adopted measures to manage air quality, specific policy interventions to reduce the impact of air pollution on children are very few. Involving and empowering children in tackling air pollution in cities is urgently needed to make the next generation to be better equipped to manage the city's air.

Like many Asian countries, air pollution in urban areas is taking a toll on Vietnam's next generation. A Government report reveals children in Vietnam's biggest cities are exposed to higher risks of respiratory diseases. According to the article "Air Pollution in Vietnamese cities threatens Young Lungs", the rate of people with respiratory diseases in Hanoi, Ho Chi Minh City, Dong Nai Province and Hai Phong City is higher than that in other cities and provinces. (<https://www.citypassguide.com/en/travel/vietnam/daily/daily/air-pollution-in-vietnamese-cities-threatens-young-lungs>). Air pollution is worsening with increasing costs and harm to public health and the environment. Some 667,000 tons of sulfur oxides, 618,000 tons of nitrogen oxides, and 6.8 million tons of carbon monoxide are generated annually in Vietnam. There is a strong correlation between the sharp rise in absolute levels of nitrogen oxides and sulfur oxides emissions and increased GDP. Particulate matter is also a problem affecting public health. (Vietnam Environment and Climate Change Assessment report by ADB)

1.1 Project Background

The project "Clean Air for Children" aims to mobilize for change and action by increasing awareness of school children and management on air pollution, reducing their exposure through proactive involvement of children.

In the beginning of the project, it was planned to be organized with school children only but looking at the need and possibilities in Vietnam, it was decided to take it up with school children as well as disadvantage adolescents and young people. It has been suggested by UNICEF Vietnam team that the project will look into innovative solutions for better air quality engaging the young people and adolescents involved in UNICEF supported Social Innovation Clubs (in partnership with Saigon Innovation Hub/ SIHUB, a local partner) that respond to social challenges in the communities, especially more underprivileged and vulnerable communities.

As young people are backbone of the nation & they are often considered to represent the future as they bring new ideas and energy to add to the pool of knowledge that currently exists. If they have an innovative idea on ways to encourage youth and their families to use alternative transportation or they would like to tell us about a successful program in their area, then this is the platform to share.



2. WORKSHOP TO ENGAGE YOUTH IN INNOVATION IDEATION

2.1 Preparation for Workshop

According to the objective of the project, it was decided that it is really important to conduct a workshop with the students to sensitize them about the air pollution and the problems due to it in their city but later it was decided to involve adolescents and children who are members of Social Innovation Clubs that has been piloted during summer of 2018 by SIHUB under UNICEF supported Child Friendly City Initiative (CFCI) project. SIHUB is a strategic partner of UNICEF Vietnam under the CFCI, which is led by city People's Committee and is committed to work with UNICEF in building the social impact start-up & innovation ecosystem in Ho Chi Minh City. It involves school children and youth and some organizations as well. After the discussion with UNICEF and SIHUB, it was finalised to organize the workshop with the children and adolescents with an objective of getting some innovative ideas to curb the problem of the air pollution in HCM City.



2.2 Preliminary meetings

Many preliminary meetings were held before the workshop to discuss the plan and strategy to organize the workshop. The major decisions and changes taken up in these meetings were:

- Since time was short it was decided that to meet the deliverables of the project to the maximum, CAA would modify the project to link to the innovation work done by UNICEF and SIHUB in Ho Chi Minh. The awareness workshop was therefore linked to an innovation ideation activity so the children and youth could source new solutions to air pollution.
- The proposed age group for the project had to be changed to include youth, so material for the workshop as well as the methodology for conducting workshop needed to be revised.
- It was decided that SIHUB, an organization support to young people of HCM City for start-up & innovation community in Saigon would be a lead partner.

2.3 CAA material developed.

It was decided in the preliminary meetings that the workshop will be planned in such a way that it should be more of interactive than theoretical. Instead of using existing material, Clean Air Asia (CAA) prepared and adapted specific material to discuss air pollution from the perspective of solutions instead of just awareness of air pollution.

2.4 Pre workshop meetings.

A day before the workshop, a pre-workshop meeting was organized in the UNICEF

Programme Partnership Office in HCMC to give the final touch to the agenda, activities planned and the flow of the workshop to avoid the last-minute hassle of the workshop. Facilitation and roles were decided on the day after the long discussions within the team.

Another meeting was organized in SIHUB Centre with the stakeholders of relevant field and some of the mentors who would be participating in the workshop next day. Major discussions in this meeting was regarding the collaboration of the stakeholders in their ways towards the control of air pollution in their city and come out with some existing or new innovative idea. All the stakeholders shared their experiences in the field of environment. There were many ideas like Cleantech, Green Project and Green Office which came out during the discussions. As a conclusion, all the stakeholders were excited to help and work with UNICEF and Clean Air Asia in controlling the air pollution in their city. The list of stakeholders attended the meeting is at Annex 1.



2.5 Workshop Partners

Clean Air Asia and UNICEF Vietnam organized a workshop titled “**New Solutions to Air Pollution**” in Ho Chi Minh City on 16th March, 2019 with support from UNICEF EAPRO. The workshop was held at SIHUB in the HCMC. The workshop provided an opportunity to understand the level of knowledge on air pollution of the school children and youth. Also, to encourage the group to develop some innovative ideas to curb the air pollution in their community and city as well.

2.6 Workshop Objectives

The workshop “**New Solutions to Air Pollution**” was designed to achieve the following learning objectives:

1. To Equip students and teachers with a basic understanding about air quality, including where it comes from, how to measure air quality, how to reduce exposure and how to reduce emissions, tailor-made for their city condition.
2. To help them understand the health hazards due to air pollution
3. To develop further interest and accelerating actions to reduce air pollution
4. Provide students with hands-on learning experience that encourages them to engage, participate and act in key environment issues, with a focus on air pollution.
5. To encourage them in finding out some innovative solutions according to the sources in their city.
6. To create a sensor-based monitoring network in few schools & demonstrate needs for monitoring Air Quality

The agenda of the workshop is under Appendix 2.

2.7 Participants

Around 35 participants including children, youth, mentors and teachers from different schools, colleges and civil society organizations were present for the discussion along with the UNICEF and Clean Air Asia team. The list of participants is at Annex 3.

3. PROCEEDINGS



3.1 Opening Remarks

Han Nguyen, Youth-led innovation lab coordinator of SIHUB introduced all the participants and the organisations present with the objective of the workshop. Along with this they were asked to fill a Pre-Assessment Survey forms to get to know about their knowledge before workshop.

Marianne Oehlers, Chief Programme Partnerships Office of UNICEF, Vietnam, welcomed all the participants briefing about the new experiment to be done with them and expectations from them that how will we sustain and carry on with the Social Innovation Club network. Also, the Challenge of looking for innovative solutions to tackle the air pollution in Vietnam was explained in her welcome note.

3.2 Interactive Session

Clean Air Asia facilitated an interactive session that introduced key air pollutants, challenges of air pollution, sources and ways to address these along with some informative videos.

The discussions focused on the problem of air pollution in Vietnam and how it can harm everyone who are exposed to these. It was also discussed that how it could be monitored easily with the help of air quality sensors & the possible activities and solutions which can be adopted in our routine life to get rid of this pollution to a much extent.

Some posters of Air pollutants, Sources, Health effects, Monitoring Systems and solutions, were placed on the walls of the hall. Participants were asked to take a round with their group to each corner where the posters are placed. One mentor was placed at every two posters who explained the groups about the posters and groups felt really excited about this new way of learning and children asked many questions to quench their curiosity about the posters. Participants felt very excited to know about each poster that were placed. After this session, participants were back to the plenary for reflection and sharing their views.



Participants were asked to identify the sources of air pollution near their areas either school, college or home, community & brainstorm some innovative solutions to curb these problems. Tuan Anh explained about the problem tree activity. All the participants were divided into six groups and they were given the time of half an hour to identify the problem and possible solutions. There was one mentor or one teacher with each group to guide them. Each group decided the separate theme as per the problem they identified.

3.3 Group Activity- Addressing the challenge of air pollution

All the groups came out with some very interesting solutions. Each group presented one by one about their theme and their solutions followed by questions and inputs, suggestions made by other groups.

i. Addressing pollution by garbage management - Cau Han Group

Problem: Cau Han group chose garbage as their theme to work. They mentioned the causes of this problem as the lack of awareness among community people about collection and segregation of waste. There is not appropriate space and garbage collection point in their community and there are insufficient facilities for collection of garbage. They also mentioned about the existing policies but they are not in effect. Garbage affects through various means like burning of garbage add to air pollutions, it takes over the living space and causes harmful effects on health of people, especially children.

Proposed Solutions:

- Raising awareness on garbage sorting
- Garbage collecting event in the community
- Community dialogue to look for solutions
- Establish a “Green Foundation” to help resident collect recycle garbage in exchange to contribution to the foundation for poor students/residents



ii. Reducing air pollution by improved landfill operations - Precious Plastic Saigon Group

Problem: Precious Plastic Organisation in Saigon chosen the theme as Landfill near school in Phu Nhuan which creates problem like smell from landfill causing negative health, make student studying less effectively. It attracts flies and mosquitoes and tends to spread infectious diseases and

above all, it causes soil and water pollution. They mentioned that the cause behind this problem is improper operations of the landfills management and lack of labour & lack of school intervention to tackle the problem as well as lack of policies from Government.

Proposed Solutions:

- Move the school
- Stop the landfills
- Improve landfill operations

iii. Relocation of industries to reduce air pollution near school - Tan Tao A Group

Problem: Tan Tao A group raised the problem of air pollution around their own school i.e. Tan Tao A School. They mentioned that Tan Tao is one of the largest industrial zones of HCMC and there is an industrial zone with factories about 1.7 Km far from the school & there is lack of trees near the school premises. Due to this they experience that students feel tired all the times and food in the canteen also gets affected with the dust and pollution. They feel that Guests don't want to visit their school. They feel air poisoned and feel bad about the ugly landscape. Even the teachers and students both cannot concentrate while teaching and studying.

Proposed Solutions:

- Increasing production and consumption tax
- Advocate with the factory owner to reduce the emissions to the environment
- Replace current burning gas by methanol
- Using electric for heating not gas
- Install filter for factories
- Install air quality monitoring
- Re-planning factory location
- Reduce use of coal
- Encourage people to reduce consumption
- Using new green "coal" – burning materials
- Plant more tree and take care of them
- Using clean energy
- Build an additional garbage process centre
- Using public transportation
- Implement 3R



iv. Reducing transportation to reduce air pollution around school area - Le Quy Don Group

Problem: Le Quy Don school Group mentioned that their school is located at highly populated area and volume of vehicles around peak hours is very high and parents usually practice idling while picking and dropping up their children in front of the school gate. It leads to increase in pollution from vehicles and makes air poisonous as well as reducing the air quality. Students usually feels shortness of breath.

Proposed Solutions:

- Reduce the volume of transportation around the school
- Promote use of public transportations and alternative transportation (bus, electric bike, bicycle, walking)
- Plan the trip before going out
- Plant more tree
- Organize training on air pollution for all students, promote awareness on air pollution through the existing internal news channel
- Organize traffic flow in front of the school, open more school gates to allow parents to pick up the students in different areas.
- Remind the parents to stop idling when drop of and pick up the students

v. Promoting use of public transport to reduce air pollution near railway school area -Nguyen Van Nghi Group

Problem: Nguyen Van Nghi School discussed about the problem of Railway near their schools. It creates traffic jam frequently, due to while lot of pollution is generated. Also, there are emission from parent's vehicles while pick and drop of their children but there is other problem also i.e. burning of garbage around the school premises. Children and Parents both feel uncomfortable due to this pollution. This pollution may cause respiratory diseases to students.

Proposed Solutions:

- Encourage students to use public transportation
- Raise awareness of neighbouring areas not to trash garbage around the school, put more trash bins around school area
- Plant more tree in the school campus
- Organize and encourage students to join "Green Saturday" to promote green living behaviour



- Install air quality monitoring device, to provide students and people about the air quality information and warning.

vi. Emphasis on traffic behaviour change to address air pollution near school - Vo Thi Sau Group

Problem: Vo thi Sau Group mentioned about the problem of vehicles in front of the Vo Thi Sau School. They mentioned that Now-a-day people are purchasing so many advanced vehicles which consumes lots of energy and produces a lot of emission. Also, there is a problem of traffic jam in rush hour in front of school which tends to increase air pollution in that area. They believe that it affects the vegetables that grow in this polluted air and the residues of pollution makes them poisonous. It causes respiratory, circulatory & congenital diseases. It may cause the beautiful architecture of the city if it caused acid rain and dusty air. It may also cost for natural disasters remediation.

Proposed Solutions:

- Enhance the vehicles engine to reduce emission production.
- Collect information and provide information on air quality to raise awareness toward traffic behaviour change (using bicycle, walking, etc.)
- Advocate to open all the school gates to reduce traffic jam.



4. AIR QUALITY MONITORING SENSORSS



Clean Air Asia discussed about the sensors as it is being already being installed in India and planned to be installed in HCM City, Vietnam. The air quality monitoring stations will help monitor the levels of different particulate pollutants like Particulates (PM10, PM2.5), in real-time on a regular basis. The real-time measurement of air quality is done by the sensor network and the data is sent to a centralized server for interactive visualization of data through display boards, mobile apps etc.

5. WAY FORWARD

At the end of the workshop, Participants were asked to work on the theme and solutions for next 1 month and work for the final solution and prepare presentation or project as per their theme for the Final result sharing workshop.

Seon Mi Choi, Regional Advisor on Environment and Climate Change, UNICEF Regional Office, concluded the workshop with the thanking note and mentioned about the final workshop in which we may share the final best projects prepared by the groups.

The final workshop will be mainly for partner consultation purpose by sharing findings of the workshop in March as well as mobilize relevant public, private and CSO partners.

The workshop ended with the Happy faces and promise to work for reducing the air pollution in HCM City.



ANNEXURES

Annexure 1: List of Stakeholders attended the meeting

S. No.	Name	Designation	Organization
1	Chen, Ling-Yao	Fundraising Manager	CHANGEVN
2	Pham Thi Thuy Duong	Training Development Manager	Asian Institute of Technology Vietnam
3	Truong Nhi	Researcher	Center for Region and Urban Studies
4	Nguyen Nhat Huy	Head of Environmental Analysis Laboratory	Faculty of Environment and Natural Resources, Ho Chi Minh City University of Technology
5	Nguyen Mai Han	Youth led Innovation Lab Coordinator	SaiGon Innovation Hub
6	Nguyen Lan Anh	WISE Coordinator	SaiGon Innovation Hub

Annexure 2: Agenda of the Workshop

Time	Session	Methodology
08:30 – 09:00	Check in/ pre-assessment survey Pre- Assessment Survey in groups of two	Each participant will fill the pre- assessment survey independently Resources: Pre-assessment survey sheet Facilitation: SIHUB (UNICEF)
09:00 – 09:10	Opening remarks UNICEF – Marianne SIHUB CAA – Introduce CAA, CAA's activities/purposes of the workshop	
09:10 – 09:30	Icebreaker: Who are you? How do think about air?	Round introduction in plenary. One word about air? (Post-it on flipchart) - Facilitation: Prarthana (T Anh support)
09:30 – 10:00	Understanding Air and Us	Video – Walk home https://www.youtube.com/watch?v=8ILlwAAYqAI&feature=youtu.be Air Pollution PM 2.5 https://www.youtube.com/watch?v=QcS3ovdsgNI&feature=youtu.be (7 minutes) Participants form in 4 groups. Ask the participants to gallery walk on the posters: - Pollutants and sources - Solutions - Affects - Monitoring systems After 5 minutes, ask the participants to move to the next topic (posters). Back to plenary for reflection/sharing (10 minutes) Resources- Photo poster, , videos Facilitation: T.Anh
10:00 – 10:15:	Tea-break	
10:15 – 11:15	Clearing the Air in Ho Chi Minh City- Ideation on meeting the challenge	CAA present some examples on air pollution problems/solutions (10m) - Prarthana Participants are back to their home teams. Ask the participants to think about air problems in their community (Problem tree) with assistance from mentors/facilitators. (40m) - T.Anh They will pick up one challenge that has been introduced earlier- mobility, industry, monitoring etc. and then work on a solution. Groups will be made according to the age group, so they can work on age specific issues. Resources- Charts, Pens, Colours, If students have computers they can use that Facilitation: Prarthana

Time	Session	Methodology
11:15 – 11:40	Youth Presentations	3 minutes elevator pitch (25 minutes) Only few teams will present the solutions can be decided on the spot and be voluntary. Facilitation: T.Anh
11:40 – 11:50	Way Forward & Timeline	Joint discussion on timeline and way forward collaboratively with youth: - Sensors installation - Youth-led solutions - In April: concentrate products - Long-terms: Proposal for the next steps/Partnership consultation meeting (Clean Air for Healthy Children Partnership Forum) Take a deep breath: https://www.youtube.com/watch?v=bnHnxFBk1cE&feature=youtu.be - Vietnamese Faci: Seonmi, Prarthana, UNICEF VN
11:50 – 12:00	Wrap up, Group Photo	Concluding Remarks
Lunch (at SIHUB)		

Annexure 3: List of Participants of Workshop

Nr.	Họ và tên (Full name)	Chức danh (Designation)	Đơn vị (Organization)	Giới tính (Gender)
1.	Lê Thị Anh Thư	Team leader (Univ Student)	Cau Han project	Female
2.	Huỳnh Bích Du	Team leader (Univ Student)	Cau Han project	Female
3.	Mai Văn Hiếu	High school Student	Cau Han project	Male
4.	Nguyễn Văn Thành Thông	Secondary school student	Cau Han project	Male
5.	Lâm Tấn Duy	High school Student	Cau Han project	Male
6.	Nguyễn Thị Kim Thoa	Facilitator	Cau Han project	Female
7.	Chu Văn An	Secondary school student	Cau Han project	Male
8.	Mai Nguyễn Quốc Thịnh	Secondary school student	Tân Tao A secondary school, Binh Tan district	Male
9.	Ngô Đức Thịnh	Secondary school student	Tân Tao A secondary school, Binh Tan district	Male
10.	Vũ Hoàng Sơn	Secondary school student	Tân Tao A secondary school, Binh Tan district	Male
11.	Nguyễn Thị Kim Ánh	Secondary school student	Tân Tao A secondary school, Binh Tan district	Female
12.	Nguyễn Văn Anh	Secondary school student	Tân Tao A secondary school, Binh Tan district	Female
13.	Mai Thị Dung	Club leader, facilitator	Tân Tao A secondary school, Binh Tan district	Female
14.	Nguyễn Anh Nhật Tú	Secondary school student	Le Quy Don secondary school, District 3	Male
15.	Đỗ Đặng Hồng Ân	Secondary school student	Le Quy Don secondary school, District 3	Female
16.	Nguyễn Lữ Hồng Ân	Secondary school student	Le Quy Don secondary school, District 3	Female
17.	Nguyễn Phan Huỳnh Mai	Secondary school student	Le Quy Don secondary school, District 3	Female
18.	Trương Thy Minh Minh	Secondary school student	Le Quy Don secondary school, District 3	Female
19.	Đỗ Thị Hồng Hạnh	Teacher	Le Quy Don secondary school, District 3	Female
20.	Đinh Ngọc Trâm Anh	Secondary school student	Nguyen Van Nghi secondary school, Go Vap district	Female
21.	Nguyễn Đỗ Đạt	Secondary school student	Nguyen Van Nghi secondary school, Go Vap district	Male
22.	Trần Diễm Hoàng Anh	Secondary school student	Nguyen Van Nghi secondary school, Go Vap district	Female
23.	Nguyễn Thị Cúc (GV)	Club manager/Teacher	Nguyen Van Nghi secondary school, Go Vap district	Female
24.	Nguyễn Hồng Bình	High school Student	Vo Thi Sau high school, Binh Thanh district	Male

Nr.	Họ và tên (Full name)	Chức danh (Designation)	Đơn vị (Organization)	Giới tính (Gender)
25.	Nguyễn Đỗ Minh Tiến	High school Student	Vo Thi Sau high school, Binh Thanh district	Male
26.	Nguyễn Lê Kim Thành	High school Student	Vo Thi Sau high school, Binh Thanh district	Male
27.	Vũ Đại Hội (GV)	Club manager/Teacher	Vo Thi Sau high school, Binh Thanh district	
28.	Tô Hồng Huệ Lan	Club manager/ facilitator	CEPORER Social protection center	Female
29.	Trương Anh Bình	High school Student	CEPORER Social protection center	Male
30.	Nguyễn Lê Hồng Phúc	Secondary school student	CEPORER Social protection center	Male
31.	Trần Như Hằng	High school Student	CEPORER Social protection center	Female
32.	Võ Duy Tân	Secondary school student	CEPORER Social protection center	Male
33.	Nguyễn Trà Mi	Facilitator	Precious Plastic Saigon project	Female
34.	Nguyễn Trần Thanh Nhã	High school Student	Precious Plastic Saigon project	Female
35.	Trần Đức Nghiêm	High school Student	Precious Plastic Saigon project	Male
36.	Marianne Oehlers	Chief Programme Partnerships Office	UNICEF HCMC office	Female
37.	Trần Công Bình		UNICEF HCMC office	Male
38.	Khổng Tuấn Anh	Senior Programme Associate	UNICEF HCMC office	Male
39.	Vân Thai Hing Pham	Communication Officer	UNICEF HCMC office	Female
40.	Simone Vis	Education Section Chief	UNICEF Hanoi office	Female
41.	Jihee Kim	Climate Change and Partnership Officer	UNICEF Hanoi office	Female
42.	Seonmi Choi	Regional Advisor on Environment and Climate Change	UNICEF Regional Office	Female
43.	Francisco Benavides	Regional Advisor on Education	UNICEF Regional Office	Male
44.	Nguyễn Lan Anh	Program Coordinator- WISE, Global Social Impact and Global Education	SIHUB	Female
45.	Nguyễn Mai Hân	Youth-led Innovation Lab Coordinator	SIHUB	Female
46.	Nguyễn Thị Thanh Mai	Guest, Technical advisor	Fablab Saigon	Female
47.	Chị Dương	Guest, Technical advisor	AIT	Female
48.	Trương Ái Nhi	Guest, Technical advisor	Centre for Region and Urban Studies	Female
49.	Prarthana Borah	India Director	Clean Air Asia, India	Female
50.	Prerna Sharma	Project Officer	Clean Air Asia, India	Female



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