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The Global Green Chemistry Innovation and Network Programme ? Connecting global community of innovators and chemists from industry, academia and government.

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PURPOSE OF THE ABSTRACT

Over the years, green chemistry has profoundly impacted how chemicals and chemical processes are made, so they are safe for humans and the environment and contribute to sustainable development. Unfortunately, the progress in reducing the production and use of hazardous chemicals has not been made consistently and took root predominantly in highly industrialized countries. While there is an eagerness to improve the overall process design beyond incremental changes in emerging nations, there is a certain lack of awareness and capacity to support green chemistry innovation. The Global Green Chemistry Innovation and Inclusion Network Programme is a collaborative effort between the United Nations Industrial Development Organization (UNIDO) and six countries: Indonesia, Serbia, Uganda, Ukraine, Peru, and Jordan, to enable green chemistry capacity building to support innovation, development and technology scale-up. This six-year initiative will create a global unifying green chemistry network that will focus on international cooperation, networking, and adaptation of green chemistry alternatives for chemical, waste and manufacture related sectors. The project will specifically support green chemistry pilot projects in emerging nations and a robust network of accelerator programs for small and medium businesses. This presentation will outline the goals of the program but, more importantly, illustrate how the global green chemistry community can actively engage in research and education levels.

FIGURES

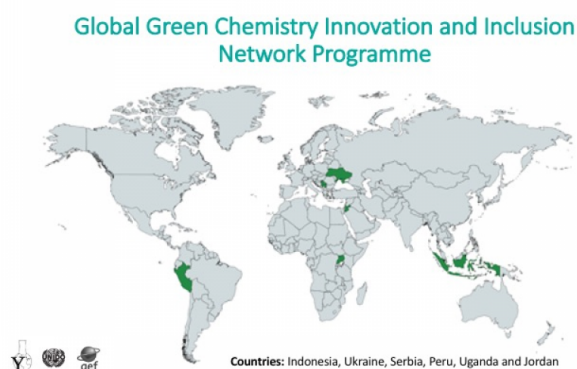


FIGURE 1

The Global Green Chemistry Innovation Network Programme

Yale, United Nations Industrial Development Organization (UNIDO) and Partnering countries: Indonesia, Peru, Serbia, Jordan, Ukraine and Uganda.

Global Green Chemistry Innovation and Inclusion Network Programme



Component 1
Green Chemistry Inclusion Network for Capacity Building

A Green Chemistry Network that goes beyond awareness raising and training within emerging nations



Component 2
Green Chemistry Accelerator Programme

An accelerator programme to nurture Green Chemistry entrepreneurs to support the development of demand-driven solutions that show promise to be scaled-up as commercialized technology



Component 3
Green Chemistry alternatives for POPs, mercury and micro-plastics for replication and up-scale

Scaled-up GC alternatives to POPs, mercury and microplastics with replication mechanisms for national, regional and global level up-take.

FIGURE 2

Programme Structure and Components

The Programme will have three main components:

1. Unified global green chemistry network to support innovation.
2. Green chemistry accelerator program for entrepreneurs.
3. Pilot projects introducing green chemistry to industry.

KEYWORDS

global network | training resources | green accelerator | SDG

BIBLIOGRAPHY

<https://www.global-green-chemistry-initiative.com/>

<https://greenchemistry.yale.edu/>