



Office of the Principal Scientific Adviser
to the Government of India

Science & Technology Cluster



Role of **Open Access** in equitable **climate**
and **health** action : disease prevention,
health systems resilience, and financing



8th August, 2023



ITC Maurya, New Delhi

Organised by :

DRIIV (Delhi Research Implementation and Innovation)

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Role of Open Access in equitable climate and health action : disease prevention, health systems resilience, and financing

Background

The negative impact on health represents the human face of climate change. Climate change has a direct impact on health, caused by weather pattern disruptions, such as, heat-waves/floods/cyclones and biological phenomena such as, the spread of vector-borne diseases, heightened anti-microbial resistance, and greater risk of transmission of zoonotic diseases¹. Significant indirect impacts are also felt through disruption of food production systems and resulting nutrition-related risks besides affecting livelihoods and access to water, housing, education and healthcare.

So far, much of global action and funding towards climate action has focused on mitigation, adaptation and building resilience. However, for successfully tackling the health related problems caused by climate change, adequate research based on scientific data is required. Despite a direct link between health and climate, there is a dearth of funding for research, programs, and projects that can feed into appropriate health-centric climate dialogues and policy making. In 2021, WHO estimated that less than 0.5% of multilateral climate finance is allocated to health projects². Additionally, there is inequitable distribution of climate-health research with most of the research occurring in high-income countries. Another WHO report released at COP 26 in Glasgow demonstrated this gap and calls for more investment and facilitation of needs-based research.

In order to build this global and regional evidence base for climate and health action, current strategies must address resource allocation for both adaptation and mitigation through a data lens, and ensure open access to data. For example, open access to data for building well-equipped disease surveillance systems is pertinent. Furthermore, achieving net zero in the healthcare sector for climate action, requires moving its current high emission systems – such as buildings, transport, water, waste management, supply chain etc. – to renewable and efficient energy sources. This requires data intensive climate foot printing of the healthcare systems. A recent policy brief published for the G20 highlights three pathways and seven high-impact interventions that G20 nations and other countries can adopt towards achieving net-zero healthcare.

Responding to climate and health related challenges therefore requires collaboration across countries and sectors. Given the cross-border nature of both challenges, open access to data, research, financial and technical resources will play a significant role in developing effective and scalable solutions which can strengthen health systems, improve countries' abilities to prevent, detect and respond to disease outbreaks, and to tackle climate-related health threats.

¹ IPCC Sixth Assessment Report

² COP26 special report on climate change and health : the health argument for climate action, <https://www.who.int/publications/i/item/9789240036727>, 2021

Objectives of the side-event

The side event aims to initiate dialogue between Indian central ministries, Indian state governments, private sector, multilateral agencies, academia and thought leaders towards priorities, actions, and financing to mitigate the impact of climate on health. It will also include representatives from the Global South to advance discussions on how Indian innovations and Global Public Goods can support climate mitigation and adaptation in other countries.

It aims to :

1. Highlight the impact of climate change on health; prioritise the most pressing issues for One Health (human, animal, and plant) and demonstrate the inter-relationships.
2. Underscore the inter-sectoral challenges which need to be addressed for health systems to be better equipped to handle climate-related risks (incl. supply chain, sustainability, energy etc.)
3. Showcase current initiatives in India that address the climate - health challenge
4. Discuss how open access to data can stimulate better future adaptation and mitigation response.
5. Outline the financing challenge for climate and health related projects, including an overview of the financing needs, the roles of public, philanthropic, multilateral, and private sources and the current attempts at closing the financing gaps.
6. Identify actions needed to enable financing for equitable climate and health action, the priorities for this financing and how this can be institutionalized.

Organiser



DRIIV : Delhi S&T Cluster, an initiative of the Principal Scientific Adviser to the Government of India.

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Participation

- > Government representatives from G20 countries, international organisations, and policy actors
- > Financers : Multilateral development banks, philanthropies, institutional investors
- > Coalitions, networks, NGOs, corporates and thought leaders

Agenda

Registration starts at 9:00 am

Session	Format	Duration	Notes
1. Inaugural session – 9:30-10:30 am			
Lamp lighting ceremony		5 min	All dignitaries
Welcome note	Address	10 min	DRIIV CEO
Keynote	Address	15 min	Dr. (Mrs.) Parvinder Maini Hon'ble Scientific Secretary, O/o PSA to GOI
DRIIV Handbook Launch & Felicitation		30 min	
2. Research outcomes and data landscape – 10:30-11:15 am			
Research outcomes in climate & health and importance of cross border data sharing	Moderated panel	45 min	Prof. Rangan Banerjee , Director, IIT Delhi; Dr. Vibha Dhawan , DG, TERI; Prof. Minu Bajpai , Dean Acad., AIIMS; Prof. Anurag Agrawal , Dean, BioSciences & Health Research, Ashoka University; Dr. Surender Nath Sharma , Former Joint Director, NVBDCP; <i>Moderator :</i> Prof. Poornima Prabhakaran , Director, CHART, Ashoka University

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Tea Break 11:15 – 11:45 am

3. Climate and health initiatives of DRIIV – 11:45-12:45 pm

DRIIV initiatives & technologies deployed for environmental sustainability	Presentations	15x4 (60 min)	Dr. Arvind Kumar , Chairman, Institute of Chest Surgery, Medanta; Prof. Sagnik Dey , Professor, IIT D; Prof. Tavpritesh Sethi , Professor, IIIT D; Sri Sanjay Kulshrestha , ED, REC; Mr. Prashant Singh , CEO, BPES; Mr. Pankaj Sharma , Co-founder, Log 9
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4. Intersectoral approach for climate action – 12:45-1:45 pm

Keynote	Address	10 min	Dr. V. K. Paul , Hon'ble Member, NITI Aayog
The inter-sectoral considerations of health systems adaptation & resilience building to climate change. How can collaborations & knowledge sharing break silos.	Moderated panel	50 min	Dr. V. K. Paul , Hon'ble Member, NITI Aayog; Dr. Rajiv Bahl , DG, ICMR; Dr. Aakash Shrivastava , Addl. Dir & Head., NCDC; Dr. K. S. Jayachandran , MS, DPCC; Dr. Sindura Ganapathi , PSA Fellow; MOHUA ; <i>Moderator</i> : Mr. Madhav Joshi , CEO, India Health Fund

Lunch break 1:45 pm – 2:30 pm

5. Solutions showcase – 2:30-3:30 pm

Introduction to IHF & ICC. On-ground execution on climate & health action by NGOs in India	Short Presentations	6x10 min ppt	Ms. Manavi Bhardwaj , ICC; Mr. Raghavendra Rao , IHF; Mr. Satish Cherukumalli , Co-founder & CEO, TraktNow; Mr. Raghu Dharmaraju , Pres., ARTPARK; Ms. Aprajita Singh , Mahila Housing Trust; Ms. Surabhi Rajagopal , Sr. Prog. Manager, SELCO Foundation
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6. International perspectives on collaborative action – 3:30–4:15 pm

<p>Dignitaries from various embassies and international organisations will discuss ongoing cross border initiatives and how knowledge exchange, collaborative research and joint action can achieve the desired mitigation impact.</p>	<p>Moderated panel</p>	<p>45 min</p>	<p>Councillor Per-Arne Wikström, S&I, Embassy of Sweden, New Delhi; Ms. Sarah Fallon, Regional Director, S&I, British High Commission; Dr. Marion Jane Cros, Sr. Economist (Health), World Bank Group; Ms. Manisha Bhinge, MD, Global Networks & Partnerships, Rockefeller Foundation; Dr. Lena Robra, Head., Acad. Engagement, Swissnex; Ms. Kachina Chawla, Head, Health Sys. Strengthening, USAID; Moderator : Mr. Vijay Rai, Sr. Executive Adviser, DRIIV</p>
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7. Role of scientific data in institutionalising financing for climate and health action – 4:15–5:00 pm

<p>Funding agencies/Investors will discuss the existing status of finance in the climate and health space and will deliberate on how more data driven scientific evidence and open access can facilitate institutionalisation of financing in this sector.</p>	<p>Moderated panel</p>	<p>45 min</p>	<p>Dr. Purvi Mehta, Dy. Dir., Growth & Opportunities, Gates Foundation; Ms. Shefali Misra, Grp. VP Public Policy & Govt. Affairs Biocon; Mr. Arjun Mallik, CEO, Prudential India Health; Mr. Sunil Thakur, Partner, Quadria Capital; Mr. Sandeep Singhal, Sr. Adviser, Avaana Capital; Moderator : Mr. Aravindan Srinivasan Director, AVPN</p>
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8. Closing remarks and valedictory address – 5:00–5:10 pm

Networking Tea

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Dignitaries



Dr. (Mrs.) Parvinder Maini
Hon'ble Scientific Secretary,
O/o PSA to GOI



Dr. V. K. Paul
Hon'ble Member,
NITI Aayog (Health)

Speakers



Dr. Rajiv Bahl
Director General, ICMR



Dr. Aakash Shrivastava
Addl. Director & Head, NCDC



Dr. K.S Jayachandran
Member Secretary, DPCC



Dr. Sindura Ganapathi
Visiting PSA Fellow



Prof. Rangan Banerjee
Director, IIT Delhi



Prof. Minu Bajpai
Dean Academics, AIIMS



Prof. Anurag Agrawal
Dean, BioSciences & Health
Research, Ashoka University



Dr. Arvind Kumar
Chariman, Institute of Chest
Surgery, Medanta



Ms. Shipra Misra
MD & CEO, DRIIV



Councillor Per-Arne Wikström
Science and Innovation,
Embassy of Sweden, New Delhi



Ms. Sarah Fallon
Regional Director, S&I
(India, Middle East, Africa)
British High Commission



Dr. Marion Jane Cros
Senior Economist (Health),
World Bank Group



Ms. Manisha Bhinge
Global Networks and
Partnerships, Rockefeller
Foundation



Dr. Lena Robra
Head, Academic
Engagement, Swissnex



Mr. Vijay Rai
Senior Executive Adviser, DRIIV

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Dr. Vibha Dhawan
Director General, TERI



Dr. Surender Nath Sharma
Former Joint Director,
NVBDCP



Prof. Sagnik Dey
Professor, IIT Delhi, DRIIV PI



Prof. Tavpritish Sethi
Professor, IIIT Delhi, DRIIV PI



Mr. Madhav Joshi
CEO, Indian Health Fund



Dr. Purvi Mehta
Asia Lead, Agriculture, Bill &
Melinda Gates Foundation



Kachina Chawla,
Head, Health Sys.
Strengthening USAID



Ms. Shefali Misra
Grp. VP Public Policy &
Govt. Affairs



Mr. Arjun Mallik
CEO, Prudential India Health



Mr. Sunil Thakur
Partner, Quadria Capital



Mr. Sandeep Singhal
Sr. Advisor, Avaana Capital



Sri Sanjay Kulshrestha
Executive Director, REC



Mr. Prashant Singh
Co-Founder & CEO, BPES



Mr. Pankaj Sharma,
Co-founder and CEO, Log 9



Prof. P. Prabhakaran
Director, CHART, Ashoka Univ.



Mr. Aravindan Srinivasan
Director, Asian Venture
Philanthropy Network



Mr. Raghavendra Rao
Director, Program &
Portfolio IHF



Ms. Manavi Bhardwaj
Senior Manager,
India Climate Collaborative



Mr. Satish Cherukumalli
Co-founder & CEO,
TraktiNow



Mr. Raghu Dharmaraju
President, ARTPARK



Ms. Aprajita Singh
Consultant,
Mahila Housing Trust



Ms. Surabhi Rajagopal
Senior Program Manager,
SELCO Foundation

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DRIIV Expert



Prof. Bijay K. Panigrahi
Head, Centre for
Automotive Research
Tribology, IIT Delhi



Prof. Manan Suri
Dept. of Electrical Engineer-
ing, IIT Delhi



Prof. Rajinder Dhaka
Dept. of Physics, IIT Delhi



Prof. D. Kalyanasundaram
Centre for Biomedical
Engineering, IIT Delhi



Prof. Pravesh Biyani
Dept. of Electronic &
Communications Eng.,
IIT Delhi



Dr. Nupur Bahadur
Associate Director, Env. &
Waste Mgmt. Division, TERI



Prof. K. Kailasam
Scientist F, INST, Mohali



Dr. Rajiv Singh
Senior Scientist,
CSIR-National Physical
Laboratory

Knowledge Partners



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BILL & MELINDA GATES *foundation*

Bill & Melinda Gates Foundation

Guided by the belief that every life has equal value, the Bill & Melinda Gates Foundation works to help all people lead healthy, productive lives. In developing countries, it focuses on improving people's health and giving them the chance to lift themselves out of hunger and extreme poverty. In the United States, it seeks to ensure that all people—especially those with the fewest resources—have access to the opportunities they need to succeed in school and life. Based in Seattle, Washington, the foundation is led by CEO Mark Suzman, under the direction of Co-chairs Bill Gates and Melinda French Gates and the board of trustees.



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Biocon – Enabling Equitable Access to Affordable Healthcare

The Biocon Group is driven by an unwavering purpose to deliver health equity through high-quality, affordable therapies that lower costs, increase access and improve treatment outcomes. From humble beginnings, it has grown into a fully integrated, technology-enabled, future-ready, global biopharmaceuticals leader.

Over the years, it has constantly evolved to establish itself as a diversified, pioneering biopharmaceutical brand. From a primarily export-driven enzymes company, it expanded into research services, biosimilars and generic drugs.

Today, Biocon is transforming patients' lives in over 120 countries, by finding new and affordable ways to treat chronic diseases such as diabetes, cancer and autoimmune disorders among others. From pipeline to production, drug discovery to drug delivery, it is making differentiated, high-quality and affordable healthcare products more accessible. Biocon Group reported a Revenue of Rs 11,550 Cr. in FY23.

The Biocon Group supplies high-quality APIs and finished formulations through its Generics business. The APIs business comprises a balanced portfolio of 50+ products spread across cardiovascular, anti-diabetics, immunosuppressants, oncology-based high potent APIs (HPAPI) and a few specialty and niche molecules. The APIs serve over 750 pharma companies in 75+ countries, including the U.S. and Europe. Its generic formulation portfolio comprises cardiology, oncology, immunology and autoimmune indications, offering oral solid dosage forms, injectables (vials, pre-filled syringes, auto-injectors) and other forms.

Biocon Biologics, a subsidiary of Biocon Ltd., is a unique, fully integrated, leading global biosimilars company committed to transforming healthcare and patient lives by enabling affordable access to high quality biologics worldwide. The

Company has a pipeline of 20 biosimilar assets across diabetology, oncology, immunology, and other non-communicable diseases. It has a proven track record of success and has achieved several 'firsts' in the biosimilars industry. Biocon Biologics has commercialized eight biosimilars in several key Emerging Markets as well as Advanced Markets like U.S., EU, Australia, Canada and Japan. It recently acquired the global biosimilars business of its longstanding strategic partner Viatrix, which is a historic milestone in its value creation journey.

Syngene International Limited, Biocon's Research Services business, delivers innovative scientific solutions to over 400 clients thus helping to accelerate drug development at an optimal cost. With a proven track record, it caters to diverse industries such as pharmaceuticals, biotechnology, nutrition, animal health, consumer goods and specialty chemicals. Its extensive scientific expertise, state-of-the-art infrastructure and stringent quality standards make it a preferred partner for innovative R&D solutions. Additionally, Syngene is listed on the Indian stock exchanges.

Sustainability is integral to Biocon's business purpose, and the Company implements Environment, Social and Governance (ESG) programs in alignment with stakeholder expectations and the Company's objectives. Biocon's ESG initiatives have led to its inclusion on the Dow Jones Sustainability Index and its induction into the S&P's prestigious annual Sustainability Yearbook under the 'industry mover' category.





BLUE PLANET ENVIRONMENTAL SOLUTIONS A TECH BASED INTEGRATED WASTE MANAGEMENT COMPANY

Blue Planet Environmental Solutions, a tech-based Integrated Waste Management Company founded in 2017 with its headquarters in Singapore, stands out as one of Asia's fastest-growing waste management companies. Setting new benchmarks in the regional waste management markets, the company has distinguished itself by leveraging cutting-edge technologies that span the entire waste management value chain.

In a remarkable collaboration with the Greater Noida Industrial Development Authority in India, Blue Planet has pioneered a groundbreaking Bio-Methanation plant to revolutionize solid waste management in Greater Noida. This state-of-the-art plant boasts an impressive capacity of processing 18 metric tons of waste per day, transforming it into biogas and CNG for efficient and eco-friendly reuse. This exceptional initiative marks India's first truly Integrated end-to-end Waste Management Plant, seamlessly integrating Collection, Processing, Disposal, and Monitoring.

With a visionary commitment to Making Waste History, Blue Planet embarks on a journey driven by Green Energy, Urban Mining, Remediation & Recovery, Integrated Projects, Recycling & Upcycling, Collection Services & MRF, Consultation Education & Specialized Services. Embracing sustainability as their guiding principle, the company continues to pave the way for responsible waste management practices that benefit communities and safeguard the environment.

- Processing 22,000 MT of waste everyday
- Completed 20+ Landfill mining projects to reclaim more than 350 acres of land from dumpsites
 - 120+ AD based organic waste processing plants across the globe
 - Largest supplier of RDF in Asia with over 1 Million metric tons RDF supplied so far
 - Projects in more than 12 countries across the globe
 - More than 170 projects on Waste Management across the globe
 - More than 2000 employees with BP group
- Nudging more than 3,00,000 students on climate action through Blue Nudge program
 - More than 5.5 Million tons CO2 emissions avoided through our projects till date
- Singapore's leading company managing waste for then 30% residents of the country

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Blue Planet
Environmental Solutions

INTEGRATED END-TO-END WASTE MANAGEMENT/SOLUTION COMPANY

Founded in 2017 and headquartered in Singapore, Blue Planet Environmental Solutions is one of Asia's fastest-growing waste management companies.

Before



After



Vairapalayam Riverside Dump Yard Reclamation Project

This award-winning project ensured reclamation of largest river side dumpsite spanning 7 acres near the Cauvery River which is the source of drinking water for millions of people. Currently the reclaimed land has been converted in to Miyawaki forest by the ULB.

Before



After



Noida Sector 54 Dump Yard Reclamation Project

This award-winning project ensured that the erstwhile dump wasteland was converted into a state of the art wetland which is thronged by thousands for reclamation presently.



GREEN ENERGY



REMEDIA
TION
AND RECOVERY



CONSULTING
EDUCATION &
SPECIALIZED
SERVICES



URBAN MINING,
UPCYCLING AND
RECYCLING



INTEGRATED
PROJECTS



WASTE
COLLECTION
DRIVE FOR
AWARENESS



SCAN TO DOWNLOAD
THE BROCHURE



SCAN TO FOLLOW US
ON SOCIAL MEDIA

Our Journey

Largest supplier of
RDF in Asia with
over 1 Million
Metric Tons RDF
supplied so far

More than 10
Million Tons of
waste processed
till date

Processing over
22,000 Million
Tons waste
everyday

Reclaimed more
than 350 Acres of
land by clearing
20+ landfills

More than 170
projects
in 15 Countries on
across the Globe

Over 2000
employees
associated with
the BP Groups



Log9 Materials

Log9 is an indigenous deep-tech startup that is redefining the EV industry's standards in the fight against climate change. Log9 was founded in 2015 in India by three forward-thinking young technologists: Dr. Akshay Singhal, Kartik Hajela, and Pankaj Sharma. Driven by innovation, Log9 has amassed 100+ industry-defining patents that attest to the organization's first principle thinking. Fuelled by its innate capability around nanomaterials, Log9 offers batteries that charge 9x faster, last 9x longer and offer 9x higher performance and safety.

Log9 is India's pioneering battery technology startup, backed by leading venture capital firms Sequoia Capital and Exfinity Ventures, as well as strategic investors such as Amara Raja Batteries and Petronas (Malaysia). The deep-tech company has recently raised a funding of \$40Mn as a part of its Series B funding till date. Log9 is the only Indian company today that holds in-house competencies in everything from electrode materials to cell fabrication to battery packs.

Log9's sole purpose is to pioneer responsible energy, which includes not only dispelling ignorance about electric vehicles and technologies, but also initiating the necessary conversations among stakeholders to empower them to make the best choices. Through its initiative, the Responsible Delivery Movement, Log9 is leading an industry-wide consortium of OEMs, Aggregators, End Users, and other stakeholders to raise awareness about the threat of climate change and to mobilize the first and last mile delivery ecosystem to combat it.

Additionally, Log9 is committed to transforming the industrial landscape by introducing a versatile range of sustainable high density energy storage solutions. With an eye on the changing transportation and logistics industries, Log9 is investing heavily in the research and development of Aluminium Fuel Cells that will power long-haul commercial vehicles in the future. With integrity, commitment, trust, and accountability as the brand's guiding principles, Log9 is also evolving as an employer of choice, which contributes to the company's future trajectory

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*India's 1st indigenous cells,
developed by us, enable India's
pursuit for energy independence*

*Our versatile energy storage
solutions accelerate India's journey
towards net-zero economy*



*Our industry-leading fastest charging batteries
InstaCharge India's vision for electric mobility*

Reimagining Technology. Redefining Innovation.

Humankind's choices have defined our world. Choices between finding comfort in the known and taking a bold leap into the unknown. Leaving behind what was, for what can be. Today, at the verge of a choice we stand, and it is Change we choose. Today, we press on with a story that will Reimagine India and Redefine Mobility & Energy. We, are Log9, and we are Pioneering Responsible Energy.



TSAW Drones : Enabling Advance Air Mobility

TSAW, an IIT Delhi portfolio startup is focused on building drones & related software solutions for safety and autonomy.

TSAW brings a range of drone technologies and digitalized solutions and services based on modern technology, from industrial drone automation to drones used for surveillance, security, and logistics. With the main focus on providing health care to disconnected areas TSAW is building a green channel of transportation for medical supplies through air, using drones keeping in view the idea of "One World, One Health". The vision lies in promoting environmental-friendly egalitarian growth throughout the world. TSAW's recently launched logistics arm, DRONECO, is also committed to bringing innovation to the logistics industry with its innovative approach. Along with the startup's subsidiary brand, DRONECO, TSAW has successfully established a drone logistics network across multiple routes, offering Drone Delivery as 3PL services to enterprise clients. So far, TSAW has shown great promise in effectively establishing routes in Kolkata, Noida and Nizamabad (Telangana State), and are operating with reputed clients like TATA 1mg labs. TSAW participated in Aero India 2023, held earlier this year, where it showcased its state-of-the-art drone manufacturing technology alongside 737 exhibitors from 30 different countries.



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DRIIV Value Proposition

Government Bodies

Find S&T solutions to your complex public sector problems such as pandemic preparedness, mainstreaming EVs, managing waste, reviving water bodies, tackling air pollution and developing smart cities.

Corporates & PSUs

'Co-create' with innovators, leveraging cutting edge research facilities in premiere institutes. Create greater impact with your CSR commitments, while delivering on UNSDGs

Researchers & startups

Deploy your innovations in use-case based pilots with public bodies and corporates, getting them validated by institutes of eminence.

International organisations

Collaborate with the local ecosystem on cross-border programmes such as cluster-to-cluster engagements, joint researches and degree programmes, technology transfer.

CHANGE





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THE WORLD
TO TACKLE
CLIMATE
CHANGE.**

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