



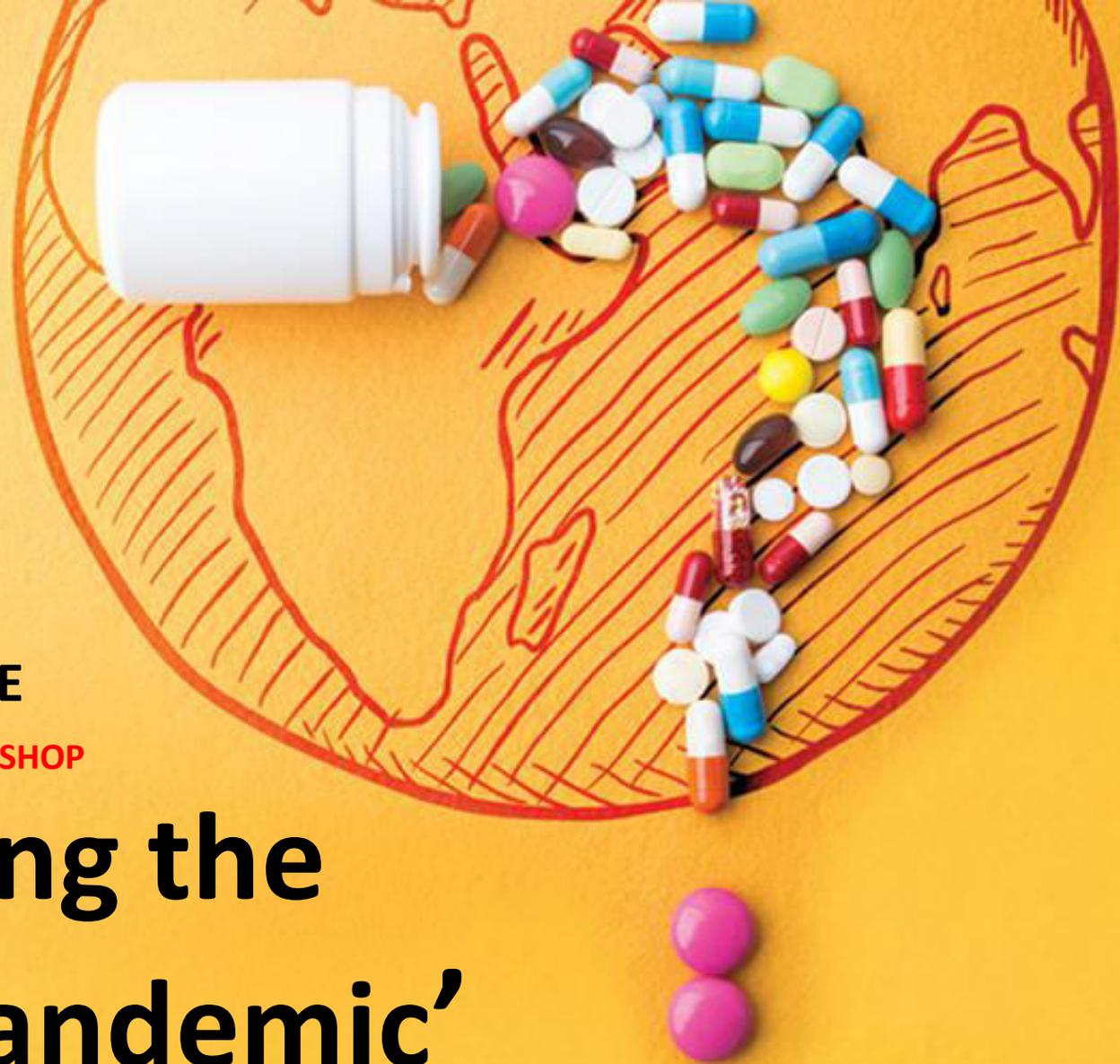
# One Health approach to fight AMR

Sunita Narain, DG, CSE

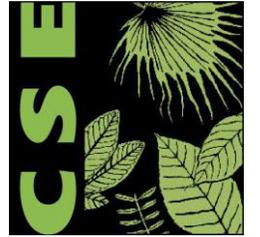
AFRICA-ASIA VIRTUAL WORKSHOP

# Containing the 'Silent Pandemic'

The Future Agenda on Antimicrobial Resistance  
March 22-24, 2021

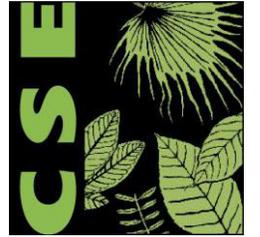


# Current and the **silent** pandemic



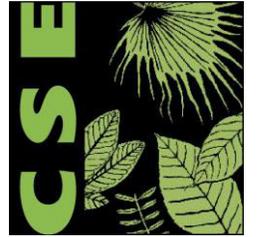
- We are living in unprecedented times
- An RNA – not even DNA – has brought world economies to halt
- In all this disruption, we must focus on another pandemic – not so obvious today – but one that threatens our health systems in ways that we cannot even imagine
- This **silent pandemic** is as catastrophic as COVID-19 or climate change
- Just imagine the scale of human tragedy if we lose the ability to get well – if the medicines stop working – if the disease cannot be treated because of antimicrobial resistance

# Health: inclusive and preventative



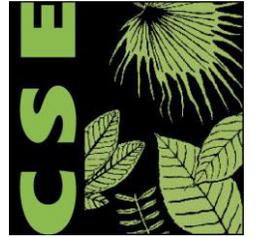
- 1. Health is on the global agenda; equitable and universal access to vaccines is on the global agenda; **we are realizing inter-dependence – and most importantly the cost of inaction in public health.** We know today that the rich cannot be protected from the virus unless the poor have protection – inclusive and equitable health care is essential
- 2. We understand the **role of prevention** – COVID-19 has brought out the role of clean water as preventive agenda – **Indian government has included access to clean water and sanitation as part of the health sector's spending**
- 3. We also know that COVID-19 and AMR is a result of our **dystopian relationship with nature**; It is about the way we are growing our food; managing our environment

# Environment, AMR and **our realities**



- Why CSE?
- Our work teaches us that we cannot first pollute and then clean up
- We cannot follow the rich country approach to first chemicalize and toxify the environment and then invest in cleaning up
- It is unaffordable for us
- We have competing priorities – from reaching health care to all to education and others
- We have to do things differently; we have to walk the paths that others have not taken yet – **leapfrog and reinvent pathways for growth without pollution**

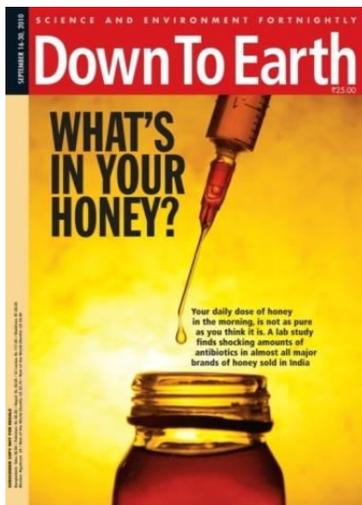
# Pathways and pathways



- One-health approach is critical
- We know that there is more than one pathway for antibiotic resistance – this is because not only are humans over-using these ‘medicines’ leading to them becoming ineffective, but also we are using them to grow our food; from crops, to livestock to fish farming
- CSE study on antibiotics in honey and then poultry; found high levels – given as growth promoter; But also given for disease management -  
- critical for farmers to safeguard their animals
- Then there is the problem of waste – contaminated with antimicrobials – from pharma industry to poultry industry and sewage plants



# CSE is working to fill the gap; pushing for change in policy and practice in food and environmental sectors



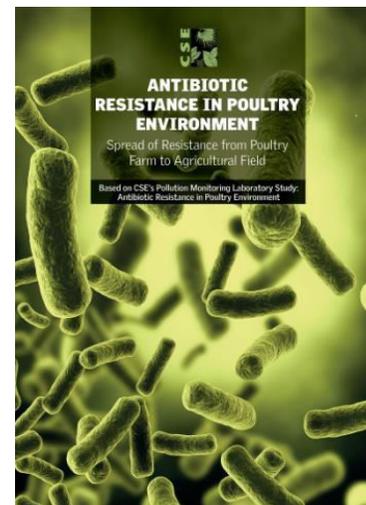
2010 (Honey)



2014 (Poultry)



2016 (Fish)



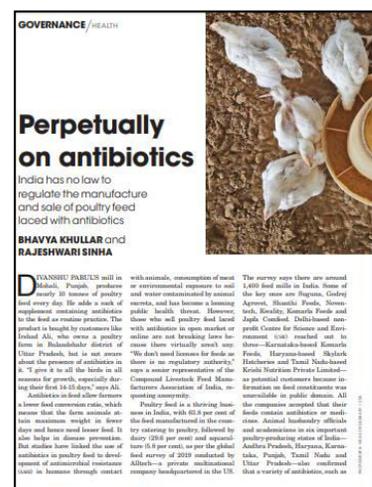
2017 (Poultry farms)



2019 (Crops)



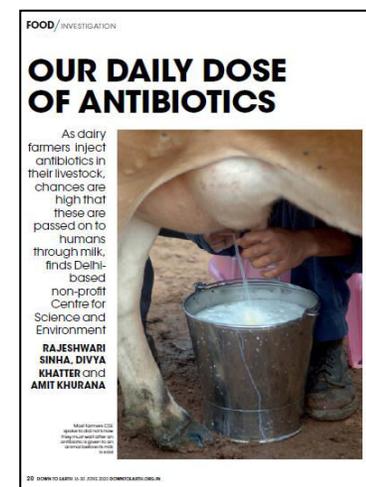
2019 (Unused drug disposal)



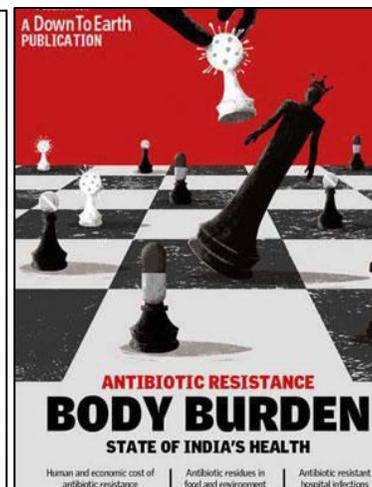
2020 (Feed)



2020 (Fast food)



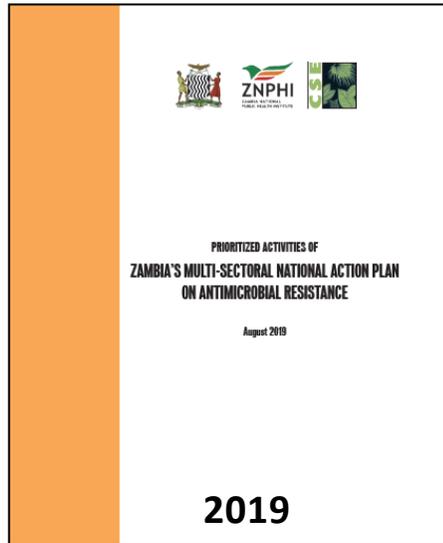
2020 (Dairy)



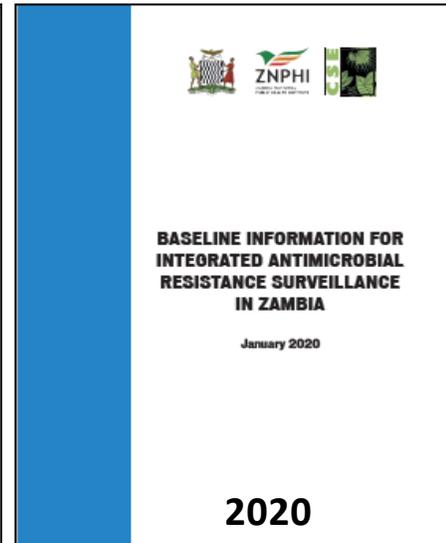
2020



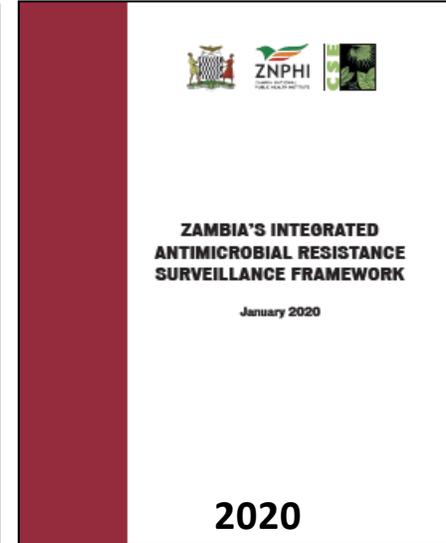
# CSE is also sharing the learnings with developing countries; supporting NAP implementation in Zambia and Zimbabwe



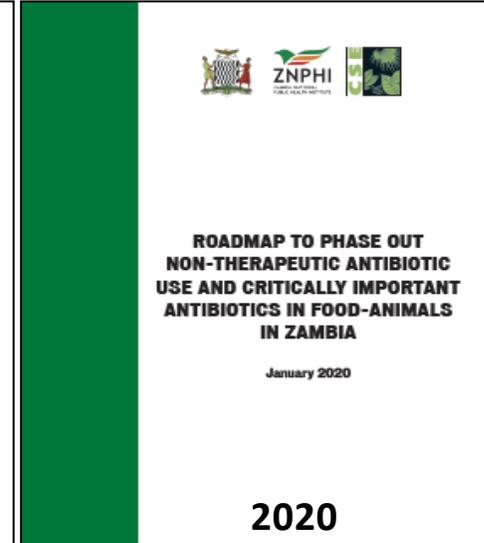
Prioritized NAP-AMR for Zambia



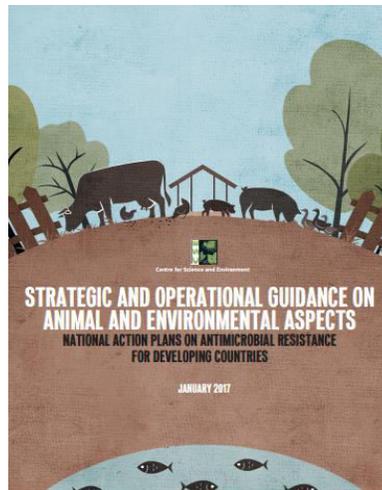
Baseline information for Integrated AMR surveillance



Framework for Integrated AMR surveillance



Roadmap to phase out misuse of antibiotics in food-animals



Strategic guidance for NAP for developing countries, 2016

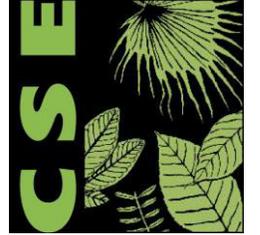


Media briefing workshop for journalists in Zimbabwe, 2020



Workshop on NAP implementation status and prioritization for Zimbabwe, 2020

# Pathways for our health security



- What then is the way ahead?
- Our world (emerging countries) have double-triple challenges
- **A.** We have to increase health access to our people; need **access** to life-saving medicines
- **B.** We have to increase food productivity and ensure farmers get livelihood security
- **C.** We cannot afford the high cost of clean up after contamination;
- **D.** We cannot afford the high cost of medical treatment when basic drugs will not work – **we cannot afford antibiotic resistance**



# Re-invent the pathway

- This is what we want to discuss: our ways ahead
- Ensure that critically important for human health antimicrobials are not used for livestock/food. **Conservation** agenda
- Ensure that we can continue to increase food production without the use of antimicrobials. **Development** agenda
- Ensure that the waste from pharma/other sources is tracked and contained. **Environmental** agenda

But all this will require serious re-invention of the way we do business with our food and environment. We have to prevent pollution and overuse of chemicals – **Prevention** agenda