



Combating Emerging and Enduring Pathogens Including AMR

Taking action today to make an impact tomorrow



6th Decennial International Conference on Healthcare Associated
Infections Global Solutions for Antibiotic Resistance in Healthcare

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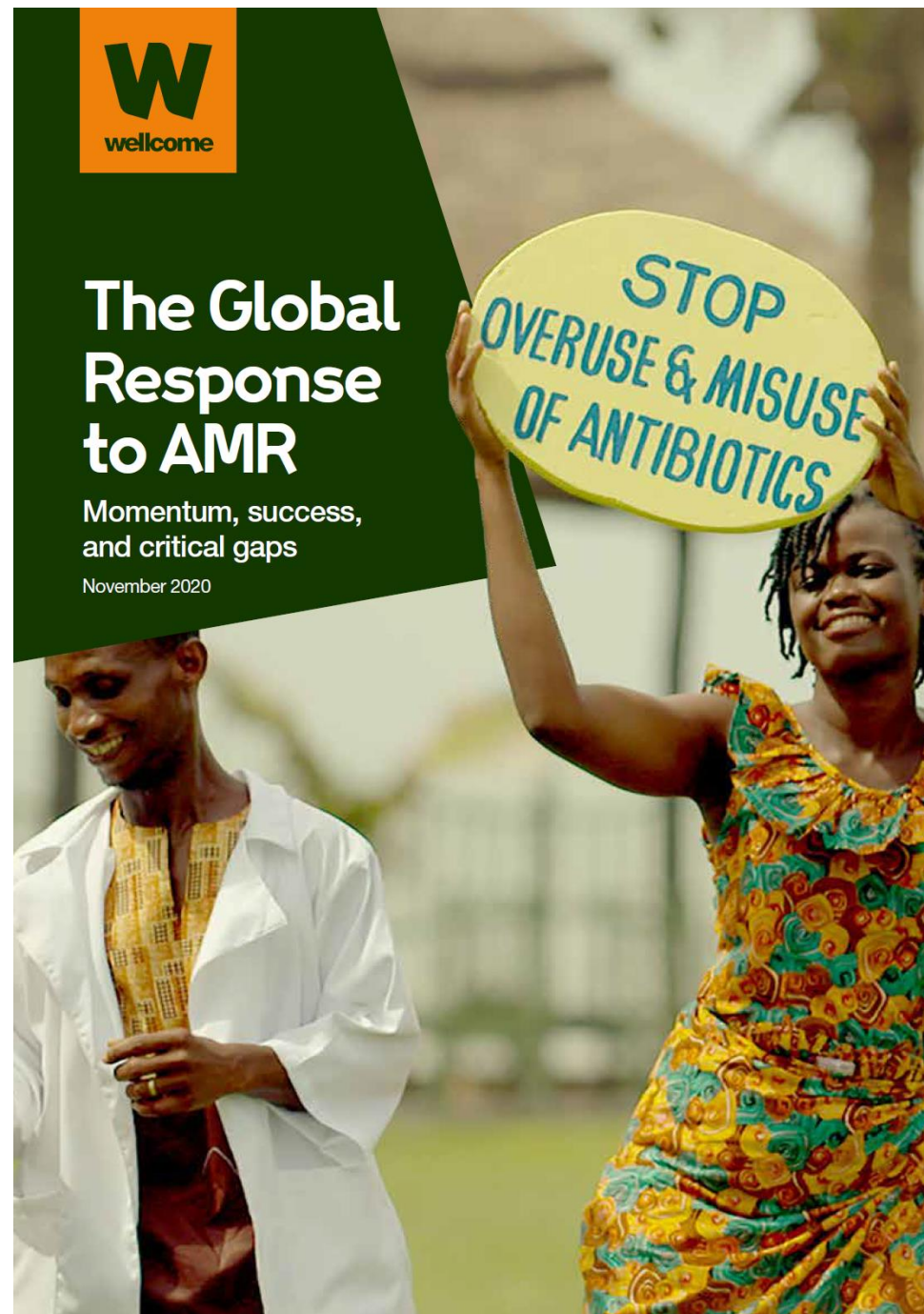
Topics

The global response to AMR

Wellcome's strategy for drug-resistant infections

Communicating to gain a public mandate

Overview: The Global Response to AMR



The presentation gives an overview of Wellcome's detailed analysis of the global response to AMR published in November 2020 including:

- Key highlights
- Aggregate findings
- Ideas for how we might position AMR in a post-Covid global health environment
- A potential "critical path" to accelerated, impactful action against AMR

Please view the full report at: <https://wellcome.org/reports/global-response-amr-momentum-success-and-critical-gaps>

Key messages from the landscape analysis

The AMR community has achieved notable recent successes, including:

- AMR has achieved prominence on the global political agenda
- The AMR community is now a broad, multi-sectoral coalition of actors aware of, and willing to tackle, AMR
- The early-stage and translational research environment is robustly funded

But this enabling environment for AMR action is at risk of irreparably weakening:

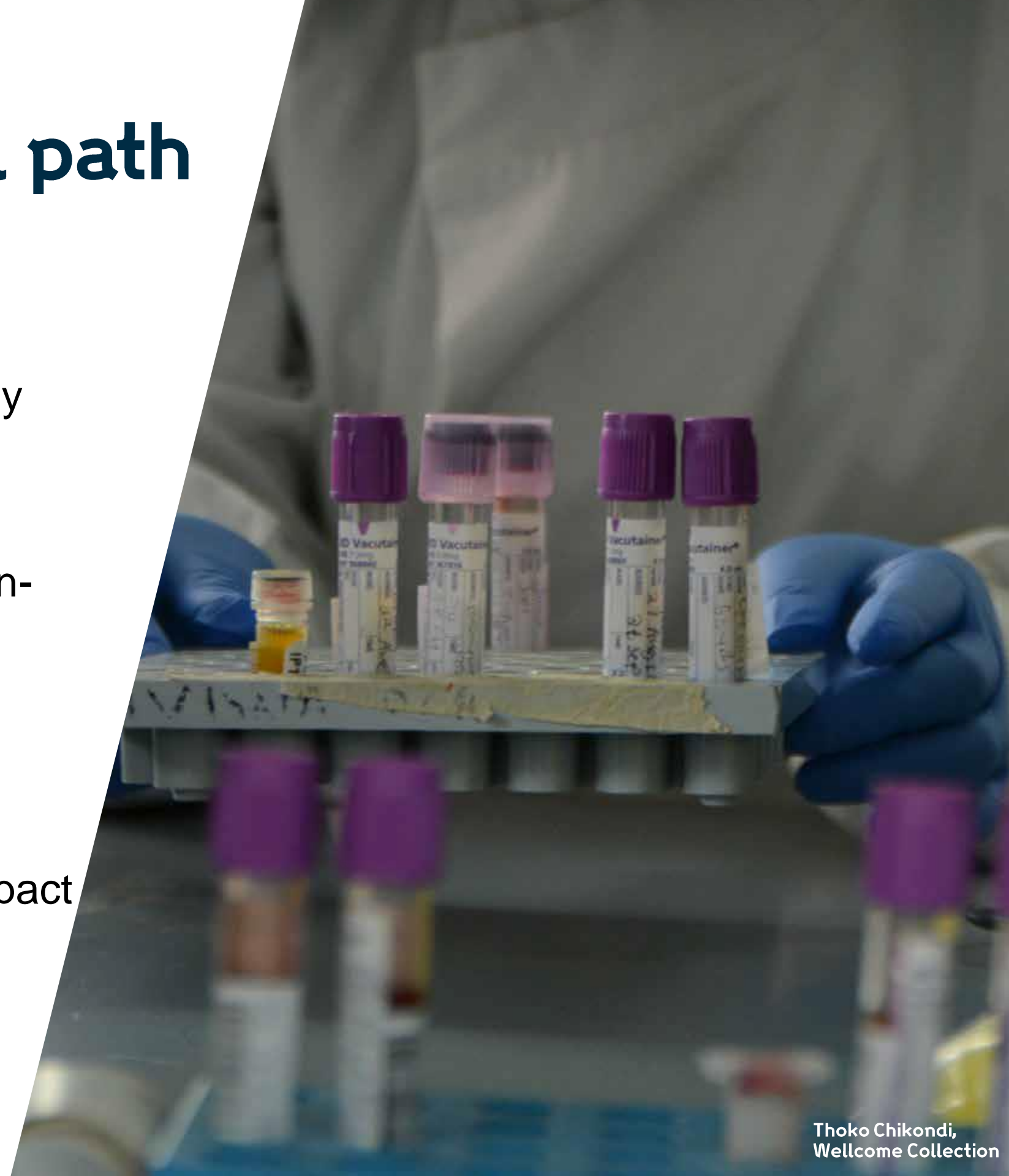
- Ambitions have not always translated into meaningful action
- Prioritisation is increasingly emerging as a gap
- The AMR agenda was at risk of losing momentum even pre-COVID-19 – making it important to capture new momentum in global health with a clear post-COVID-19 AMR narrative

The importance of a critical path to impact

Problem: Prioritisation was one of the most frequently and urgently raised points by experts:

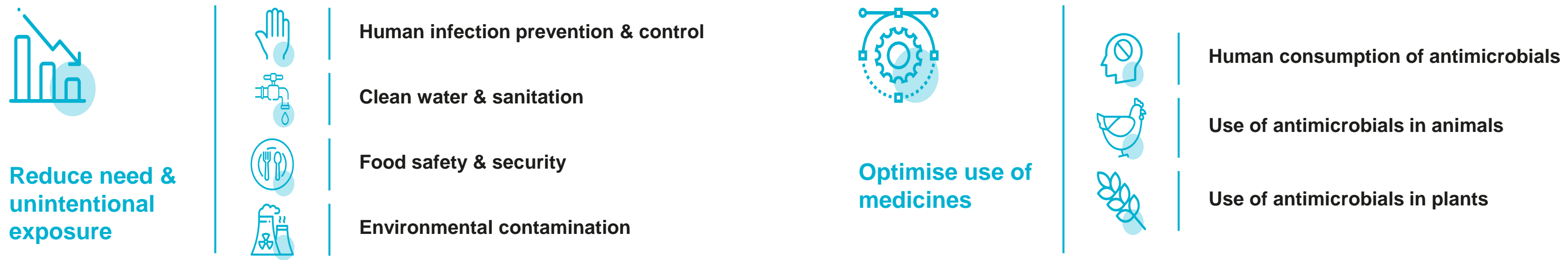
- AMR agenda and narrative are complex
- The multitude of potential actions paralyses decision-makers
- Limited time, and limited resources, to stop AMR overwhelming global health systems

Solution: a **Critical Path** plotting actions based on impact and feasibility to inform prioritisation



The analysis framework: 7 themes and 9 enablers^{*W 6}

Themes



Enablers



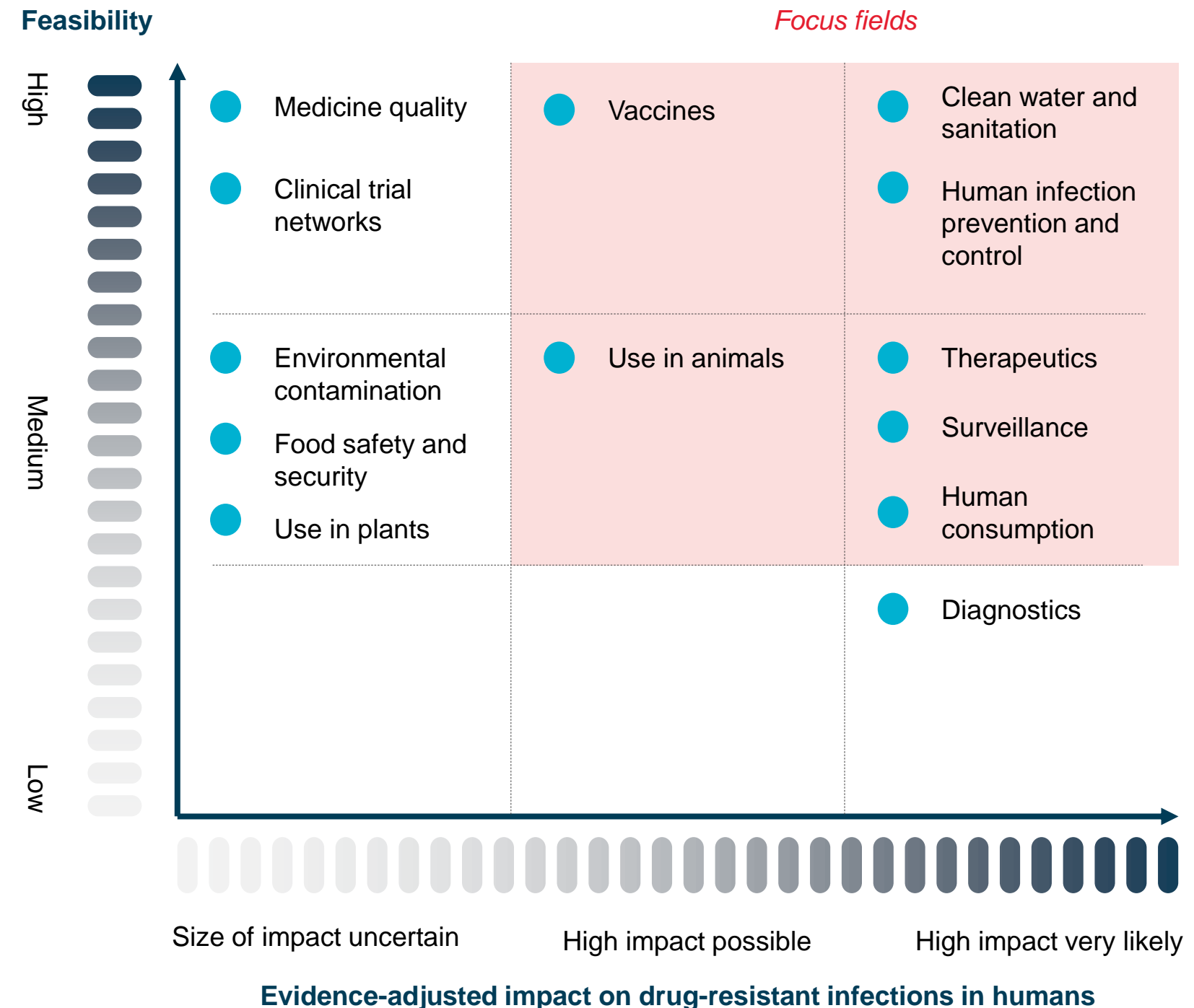
*Based on the 2017 IACG AMR Framework for Action

Suggested critical path (2020-2030)

Suggested focus fields (with high impact possible or very likely, and medium or high feasibility):

- High on both: Clean water and sanitation; human IPC
- High on one: vaccines, therapeutics, surveillance, human consumption
- Medium on both: Use in animals

Themes which sit outside the identified focus fields **remain critically important** but require more research to further understanding of impact/feasibility of solutions




















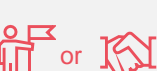










Sequencing steps towards impact

A potential critical path to impact has **2 phases**

- 2020–30: Focus on **mitigating the risk of resistance**, and on **expanding the evidence base** where gaps limit action
- Beyond 2030: Focus on moderating levels of resistance development through **prevention** and maintaining and scaling **best practices**

Optimal actions to take in each theme and enabler will vary in the second phase

		2020-30	2030-2050
Themes	Clean water & sanitation		
	Human infection prevention & control		
	Therapeutics (development & access)	 Boldly combat risks	
	Surveillance (incl. laboratory capacity)	 Boldly combat risks	
	Human consumption of antimicrobials		
	Use of antimicrobials in animals		
Enablers	Clinical trial networks		 Maintain systemic response & prevention
	Diagnostics (development & access)		
	Discovery & translational research		
	Vaccines (development & access)	 Learn and build	
	Environmental contamination		
	Food safety & security		
	Use of antimicrobials in plants		
	Medicines quality		

Impact of Covid-19 on the AMR agenda

Covid net impact on resistance development remains uncertain

- Evidence in early stages, data limited
- Factors exerting upward pressure: broad-spectrum antibiotics as standard treatment for Covid patients, reduced attention to disease mitigation efforts (e.g. resistant TB)
- Factors exerting downward pressure: drops in patient visits and routine procedures, reduced disease transmission, improved hygiene
- Net effect remains to be seen

Covid provides several opportunities for the global conversation on AMR

- Elevated status of healthcare funding and innovation financing
- Expanded laboratory capacity and surveillance
- Improved infection prevention and hygiene

At the same time, there are several new risks to progress on AMR

- Funding cuts due to aggregate fiscal constraints
- Research priorities shifting disproportionately towards viral infections
- Resource constraints for implementation (e.g. hospital surveillance)
- Ineffective stewardship (e.g. shift to telemedicine hampering diagnostics)
- Challenges to advocacy accessibility

Implications for AMR community

The AMR agenda, despite significant successes at mobilising awareness and resources, is **at risk of losing momentum**

It should focus on a **critical path**, and prioritise **actions that are high-impact and feasible** in an appropriate sequence

Action is necessary from all actors across government, private sector and civil society, moving individually *and* collaboratively

The community needs to help all actors **define and own targets and objectives** which are measurable to ensure we stay on the critical path





Wellcome's strategy for drug-resistant infections



Wellcome supports science to solve the urgent health challenges facing everyone

Focus will be on three urgent health challenges supported by a portfolio of discovery research:

- infectious diseases
- global warming
- mental health



Wellcome's role in the AMR agenda

**Wellcome's
contribution will
have the
highest impact
by focusing on
a subset of the
AMR agenda**



Our strategy for action

Two Goals

- Sustainable pipeline for antibiotics
- Foster mobilisation of government-led action

Achieved through three Outcomes

- New antibiotics are developed, available accessible and affordable
- Appropriate, evidence-based use of antibiotics
- Implementation of robust, country-specific, country-led, country-owned National Action Plans



Communicating to gain a public mandate

*We should always talk about **drug-resistant infections***



**Public support can reinforce the mandate
for change**



But AMR is not a top priority with the public...

	US	UK	Germany	Kenya	India	Thailand	Japan
1 st	Cancer 89%	Cancer 88%	Air pollution 85%	Cancer 97%	Air pollution 89%	Air pollution 93%	Air pollution 83%
2 nd	Lack of access to clean water 85%	Air pollution 86%	Lack of access to clean water 85%	Air pollution 97%	Lack of access to clean water 87%	Epidemics & pandemics 91%	Cancer 77%
3 rd	Air pollution 83%	Antibiotic resistance 83%	Cancer 84%	Lack of access to clean water 96%	Cancer 83%	Cancer 90%	Lack of access to clean water 75%
4 th	Epidemics & pandemics 76%	Lack of access to clean water 82%	Antibiotic resistance 76%	Epidemics & pandemics 89%	Antibiotic resistance 76%	Lack of access to clean water 87%	Epidemics & pandemics 71%
5 th	Antibiotic resistance 72%	Epidemics & pandemics 78%	Epidemics & pandemics 70%	Antibiotic resistance 83%	Epidemics & pandemics 72%	Antibiotic resistance 75%	Antibiotic resistance 57%

Q: How significant or otherwise do you consider the threat to the world today from each of the following issues? (threats ranked based on % rating each issue as a very/fairly significant threat)

Reframing resistance

‘Framing’

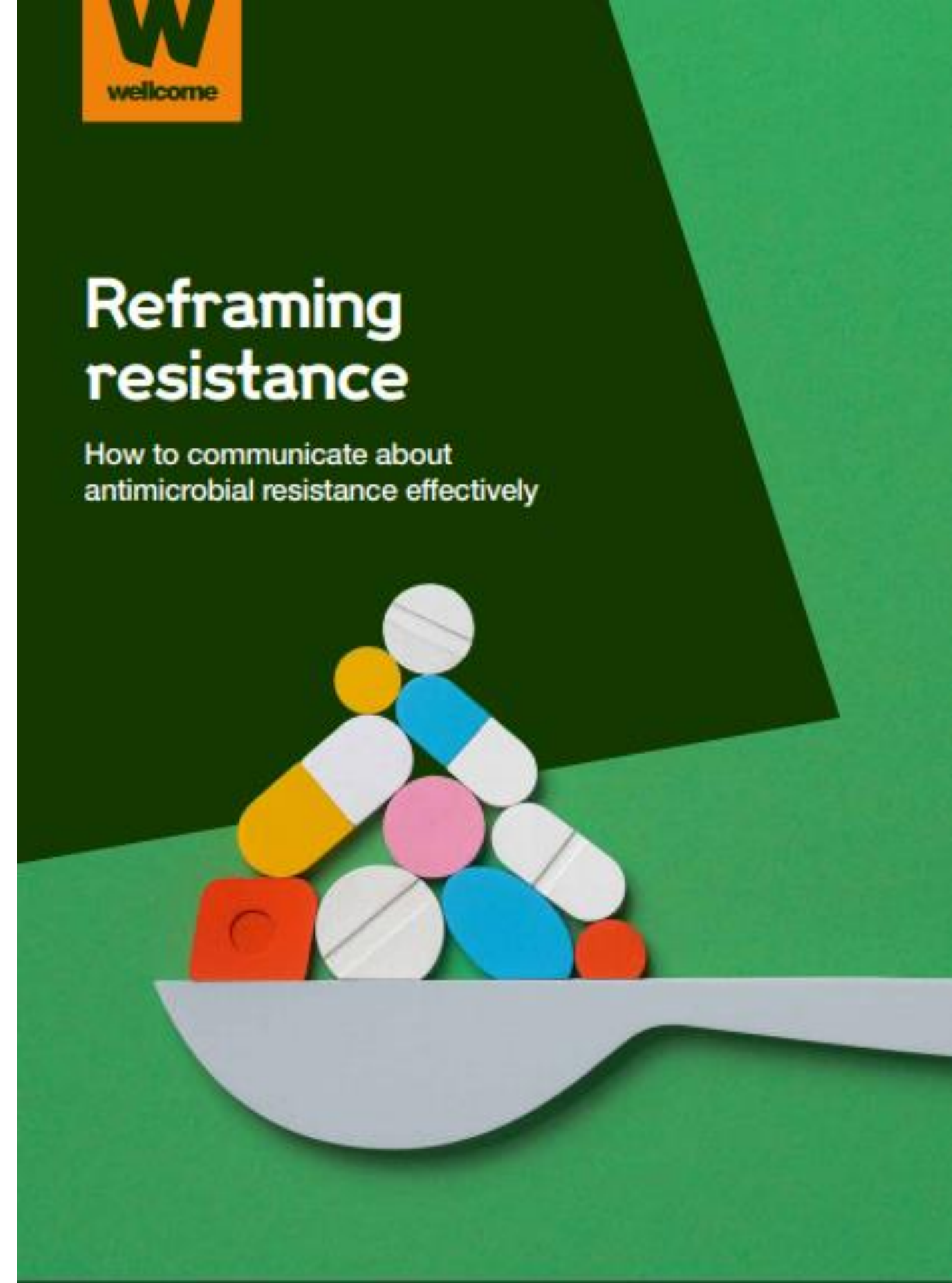
- How an issue is explained and presented through specific themes and angles

Objectives

- Understand how best to frame AMR to drive policy action and increase public support and comprehension
- Share findings with the AMR community to support cohesive and consistent communications

Methods

- In-depth interviews with experts
- Media & social media analysis
- Quantitative and qualitative research
- Testing with 12,000 people in 7 countries
[Germany, India, Japan, Kenya, Thailand, UK, USA]



**We can reinvigorate the AMR message by
communicating more simply**

The 5 framing principles

1. Frame drug-resistant infections as undermining modern medicine
2. Explain the fundamentals succinctly
3. Emphasise that this is a universal issue; *it affects everyone, including you*
4. Focus on the here and now
5. Encourage immediate action

Summary

The global AMR agenda should frame plans that enable **stepwise-actions that are relevant, focused and feasible** - all of which aimed to build to the long-term goal to control AMR.

Wellcome is focusing on revitalising the antibiotics pipeline, improving how antibiotics are used, and using science to support NAP implementation.

We need to **improve communications** to better engage everyone to have a strong mandate for change.

HOW CAN WE SAVE
OUR ANTIBIOTICS?

WISE USE
GLOBAL ACTION
BETTER DATA

DIAGNOSTICS
NEW DRUGS
VACCINES



Thank you

**Working for a world where nobody is endangered by
drug-resistant infections**