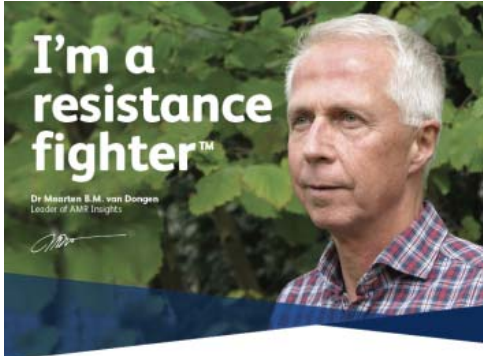


Emerging Technologies in Antimicrobial Resistance



EMERGING TECHNOLOGIES in Antimicrobial resistance (AMR)
14 November 2018, Utrecht, The Netherlands





I'm a resistance fighter™

Dr. Maarten B.M. van Dongen
Leader of AMR Insights

Combating antimicrobial resistance (AMR)
AMR is one of the greatest threats to health and food safety. Each year, hundreds of thousands of people worldwide die as a consequence of resistant microorganisms. If we continue in this way, we could see many millions of casualties each year. I am committed to eliminating antimicrobial resistance, because I do not accept that millions of innocent people need to die as a result of resistant bacteria and other microorganisms. My mission is to save lives by increasing awareness and connecting people. **Because of all us need to be resistance fighters.**


Learn more at AntimicrobialResistanceFighters.org



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AMR Insights

WHY?



HOW?

Creating awareness

Informing

Connecting

WHAT?

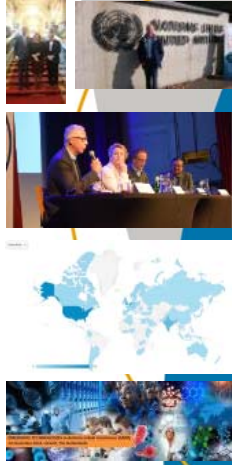
Education


Lectures

Infoplatform

E-Newsletter

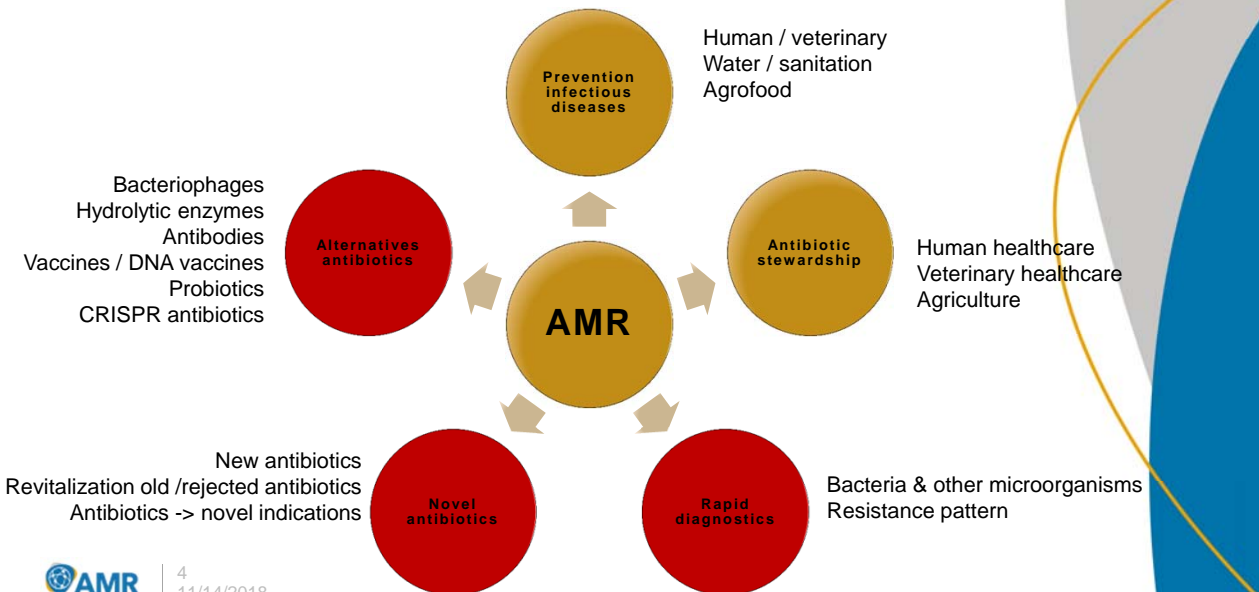
Symposium





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Why 'Emerging Technologies in AMR'?




Bacteriophages
Hydrolytic enzymes
Antibodies
Vaccines / DNA vaccines
Probiotics
CRISPR antibiotics

Human / veterinary
Water / sanitation
Agrofood

Human healthcare
Veterinary healthcare
Agriculture

Bacteria & other microorganisms
Resistance pattern

New antibiotics
Revitalization old /rejected antibiotics
Antibiotics -> novel indications



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'Emerging technologies in AMR'



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Program and rooms

Match Makings

<i>entrance</i>	
4	7
8	19
12	

Infomarket +
coffee/lunchlets

Plenary

Round tables



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- Agenda 14 November**
- Welcome and introduction (room T007)**
 - 09:00 am Welcome
 - Dr. Maarten van Dongen (AMR Insights; The Netherlands)
 - 09:10 am World Antibiotic Awareness Week: objectives by WHO
 - 09:20 am Conclusions World Investment Forum 2018 on 23 October in Geneva (CH)
 - 09:30 am Antimicrobial resistance as a global threat
 - Prof.dr. Jan Verhoef (World Healthcare Forum; The Netherlands)
 - Technology updates (room T007)**
 - 10:00 am Novel antimicrobial strategies to combat AMR
 - Dr. Michael Graz PhD FRSE (Biophyis Ltd; UK)
 - 10:30 am Novel vaccines as effective tool against AMR
 - Dr. Frederick Wittke (MSD; Switzerland)
 - 11:00 am *Coffee – Networking – Information Market (room T012)* ←
 - 11:30 am Novel molecular diagnostics in AMR
 - Dr. Aart van Amerongen (Wageningen University & Research; The Netherlands)
 - 12:00 pm Artificial Intelligence to tackle AMR
 - Dr. Stephan Beisken (Ares Genetics GmbH; Austria)
 - 12:30 pm PLEX technology: Novel localized prolonged antimicrobials release solutions
 - Dr. Noam Emanuel (PolyPid Ltd; Israel) ←
 - 12:40 pm *Lunch – Networking – Information Market (room T012)* ←
 - Parallel sessions (rooms T004, T008, T019)**
 - 01:30 pm Matchmakings (I) OR
 - Round Table 'Faster sharing of scientific data on AMR technologies'
 - Matchmakings (II) OR
 - 02:30 pm Round Table 'Industry – Hospital collaborations to implement novel diagnostics'
 - Funding, partnering and collaborating (room T007)**
 - 03:30 pm The REPAIR Impact Fund for start-up's and SME's
 - Dr. Jeroen Bakker (NOVO Holdings; Denmark)
 - 04:00 pm The BEAM Alliance as a committed coalition
 - Dr. Remko van Leeuwen (BEAM Alliance; France)
 - 04:30 pm I'm a Resistance Fighter: the broad-based global AMR coalition-building campaign
 - Diane Flayhart (BD Foundation; USA)
 - 04:45 pm PARKing Antibiotic Discovery
 - Dr. Wes Kim (The Pew Charitable Trusts; USA)
 - 05:00 pm Novel antibiotics discovery at Bugworks in the backdrop of AMR situation in India
 - Dr. Santanu Datta (Bugworks; India)
 - 05:15 pm Towards a global AMR Technology Database
 - Dr. Maarten van Dongen (AMR Insights; The Netherlands)
 - Networking (room T012)**
 - 05:30 pm *Reception – Networking – Information Market* ←

Practical points

- Agnes van Diemen (+31623050014)
- Information market
- PolyPid presentation will not take place -> explanation parallel program
- Wifi code
- #emergingtechnologiesinAMR #WAAW #AMR #antimicrobialresistance
- Strict timing...



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World Antibiotic Awareness Week 2018 #WAAW

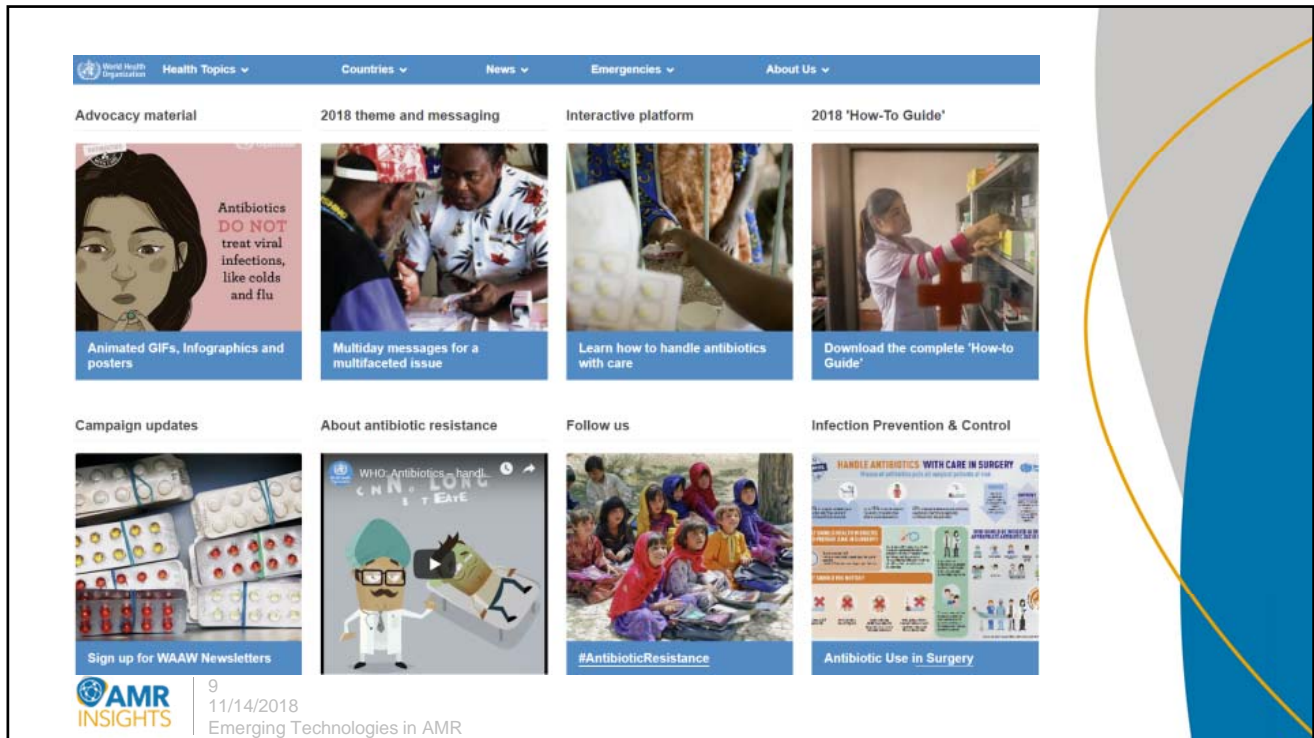


Home Health Topics Countries News Emergencies About Us

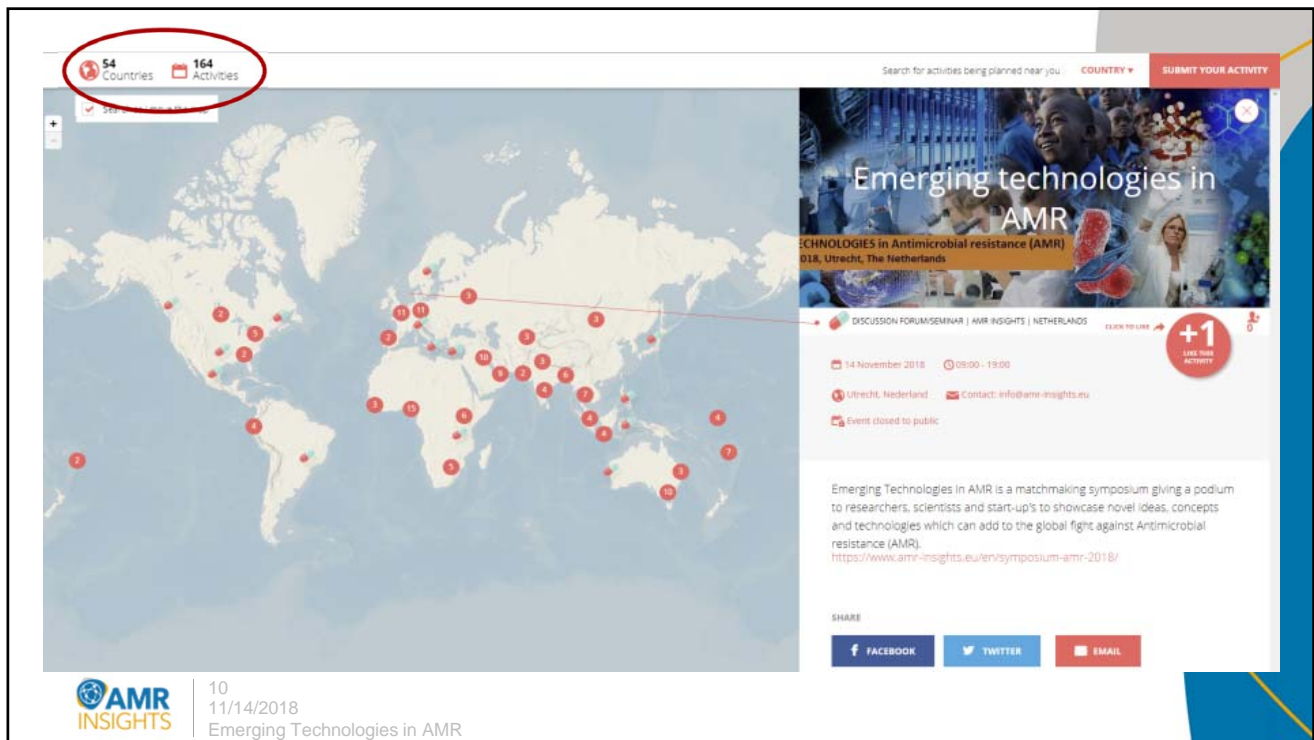
Home / WHO Campaigns / World Antibiotic Awareness Week



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The screenshot shows the WHO AMR Insights website home page. At the top, there is a navigation bar with links for Health Topics, Countries, News, Emergencies, and About Us. Below the navigation bar, there are four main content areas: 'Advocacy material' featuring an animated GIF about antibiotics, '2018 theme and messaging' with multiday messages, 'Interactive platform' for learning to handle antibiotics, and '2018 'How-To Guide'' for downloading the complete guide. A second row includes 'Campaign updates' with WAAW newsletters, 'About antibiotic resistance' with a WHO cartoon, 'Follow us' with a #AntibioticResistance hashtag, and 'Infection Prevention & Control' with an infographic on antibiotic use in surgery. The footer contains the AMR Insights logo, a date of 11/14/2018, and the page title 'Emerging Technologies in AMR'.



The screenshot shows an event page on the WHO AMR Insights website. On the left, a world map displays 54 countries and 164 activities, with a red circle highlighting these counts. On the right, the event details for 'Emerging technologies in AMR' are shown, including the date (14 November 2018), time (09:00 - 19:00), location (Utrecht, Nederland), and contact information (info@amr-insights.eu). The event is described as a matchmaking symposium for researchers and start-ups. The footer includes the AMR Insights logo, the date 11/14/2018, and the page title 'Emerging Technologies in AMR'.

World Investment Forum 2018



FOSTERING INVESTMENT IN THE DEVELOPMENT OF NEW ANTIBACTERIAL TREATMENTS

Antimicrobial resistant infections (AMR) are on the rise and pose a significant global risk. Developing countries, in particular, are vulnerable because they often lack key medical resources. The development of new antibacterial treatments is costly while the return on investment is low. Organized in cooperation with the **World Health Organization (WHO)**, the conference will explore solutions to this dilemma, seeking to facilitate cooperation between biotech firms, potential investors and governments for AMR investment. It will present some innovative technologies that need financial support and provide a matchmaking platform to connect impact investors with researchers and developers of treatments against AMR.

Issues for the debate:

- What is the role of government?
- What are the needs of the industry?
- Which innovative means of investment can help address the AMR problem?

In partnership with:

World Health Organization

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bugworks

BEAM Alliance

Rationales for the event

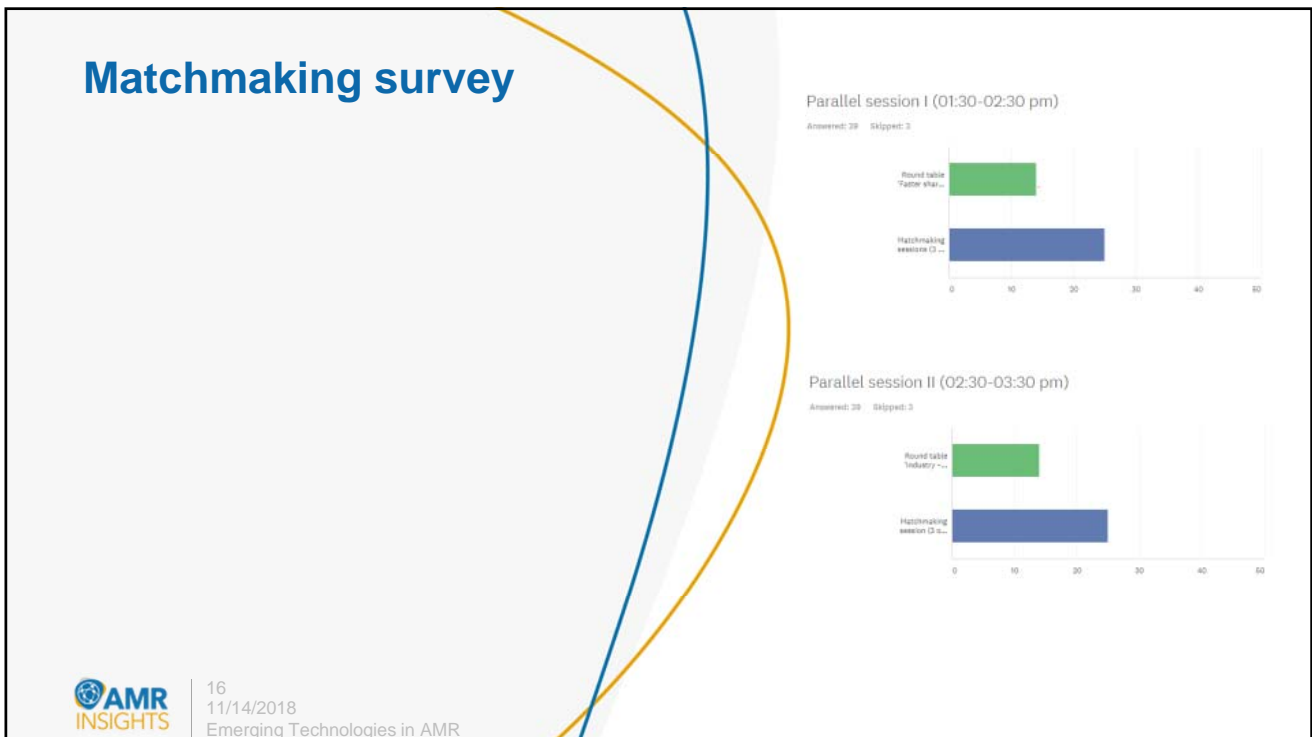
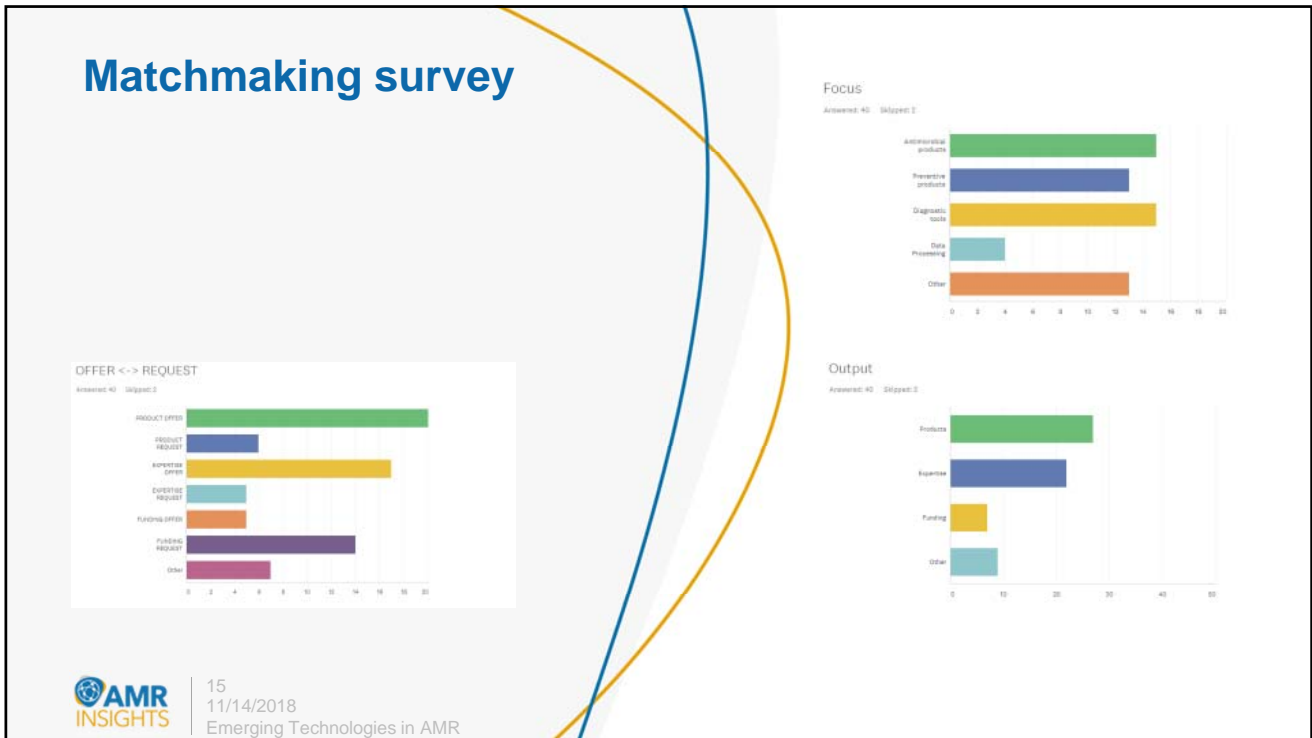
- Need for new technologies -> capital required
- Opportunities & risks related to AMR investments
- Antimicrobials at affordable prices
- Investment partnerships in AMR-related R&D


Main findings

1.  →  →  →  → 
2. UK Global AMR Innovation Fund (UK GAMRIF): £ 50 million
3. Global approach needed




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Towards a global AMR Technology database

- Emerging Technologies:
 - Diagnostics / Antimicrobials / Alternative strategies / Data (AI) tools + Technology platforms
- Easy match with upcoming resistance's
- Easy access in developed / upcoming economies
- Funding

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Thank you supporters



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Thank you

- Speakers
- Advisory board
- Participants Info market
- Participants



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