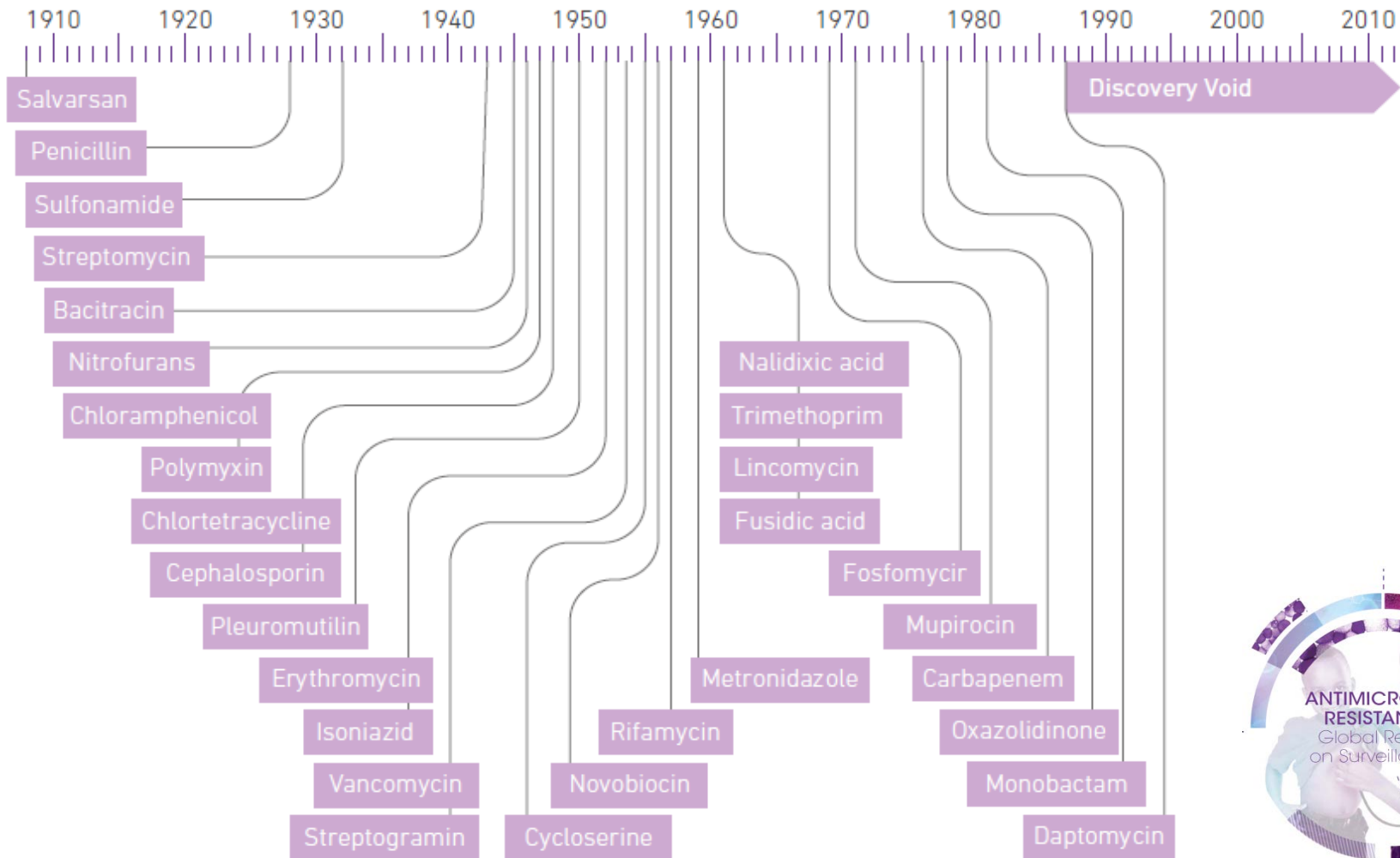


Figure 1 Dates of discovery of distinct classes of antibacterial drugs

Illustration of the “discovery void.” Dates indicated are those of reported initial discovery or patent.



Adapted from Silver 2011 (1) with permission of the American Society of Microbiology Journals Department.



Source : rapport OMS 2014, Antimicrobial Resistance, Global Report on Surveillance

ANALYSIS

The true cost of antimicrobial resistance

Richard Smith and **Joanna Coast** argue that current estimates of the cost of antibiotic resistance are misleading and may result in inadequate investment in tackling the problem

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Table

Table 1| Annual cost of illness for selected conditions in US

Health problem	Societal cost (\$bn, 2004)
Cardiovascular disease ^{w1}	380
Musculoskeletal conditions ^{w2}	300
Motor vehicle accidents ^{w3}	270
Occupational injury and illness ^{w4}	266
Mental disorders ^{w5}	260
Substance abuse ^{w6}	195
Cancer (all) ^{w7}	185
Diabetes ^{w8}	145
Alzheimer's disease ^{w9}	70
Antimicrobial resistance ^{w10}	55
Skin disease ^{w11}	48
Urinary incontinence ^{w12}	23
Asthma ^{w13}	16

Global trends in antimicrobial use in food animals

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www.pnas.org/cgi/doi/10.1073/pnas.1503141112

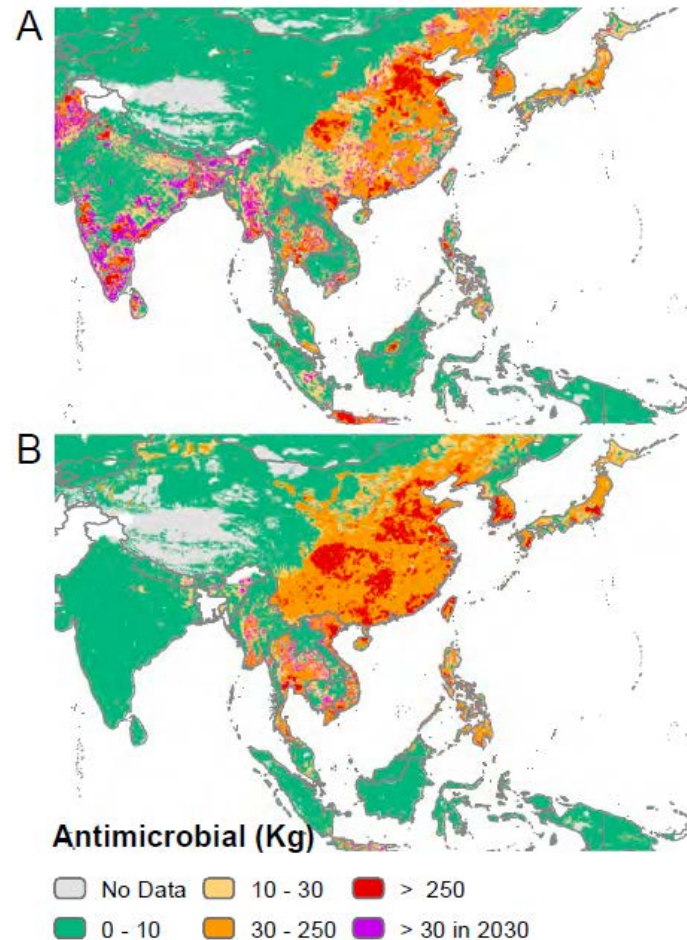
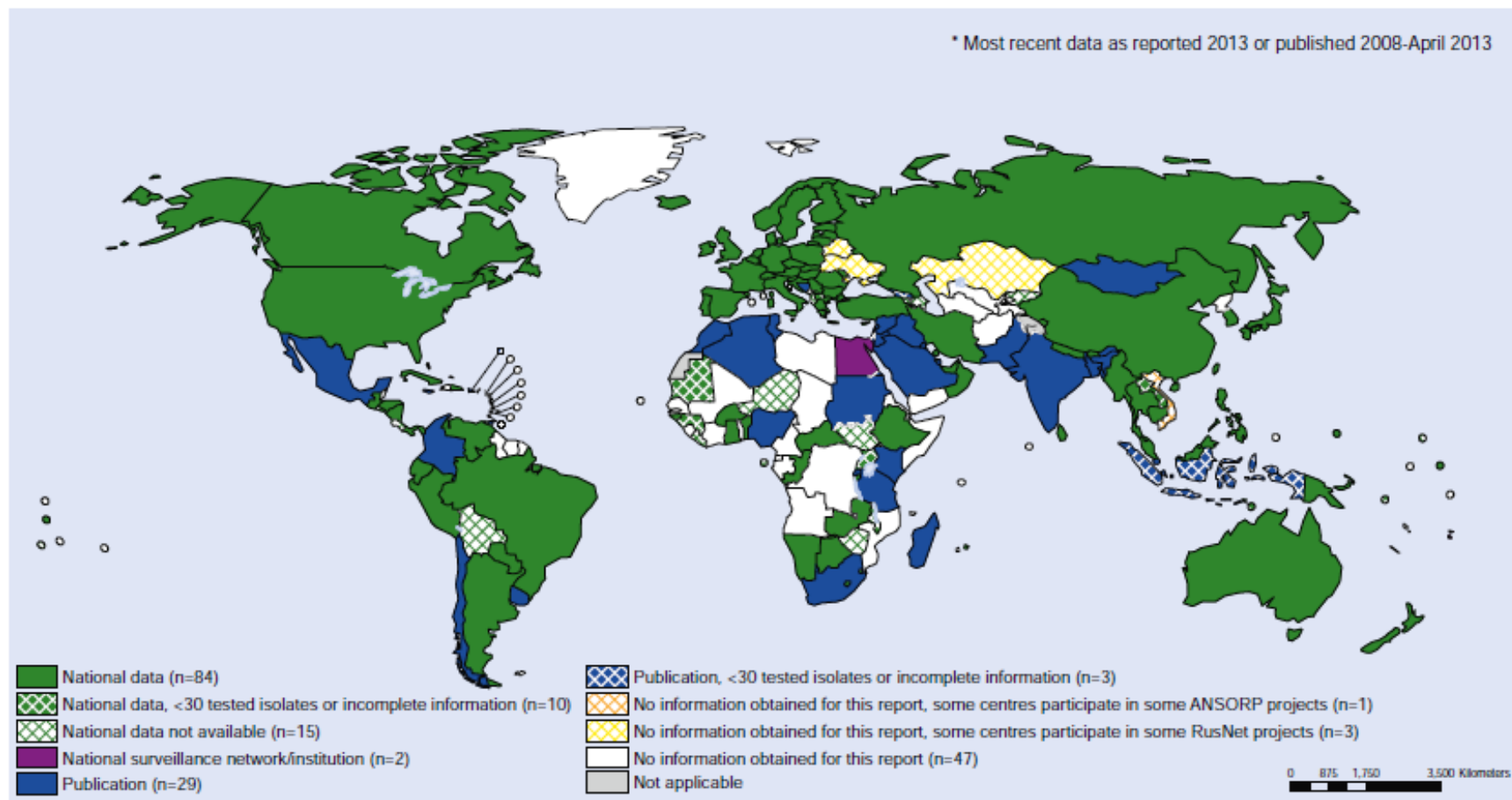


Fig. 4. Antimicrobial consumption in chickens (A) and pigs (B) in 2010. Purple indicates new areas where antimicrobial consumption will exceed 30 kg per 10 km² by 2030.

Figure 3 Sources of data on *Escherichia coli*: Resistance to third-generation cephalosporins^a



National data refers to requested data returned as described in the methods. The definition does not imply that the data collected are representative for that country as a whole because information gaps are likely. (For details on data see Tables A2.1–A2.6, Annex 2).

a. ceftazidim; cefotaxim; ceftriaxone