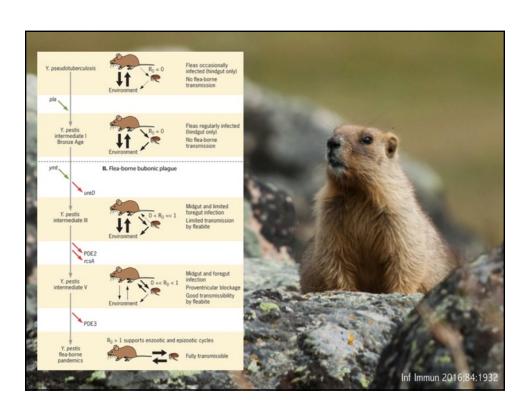




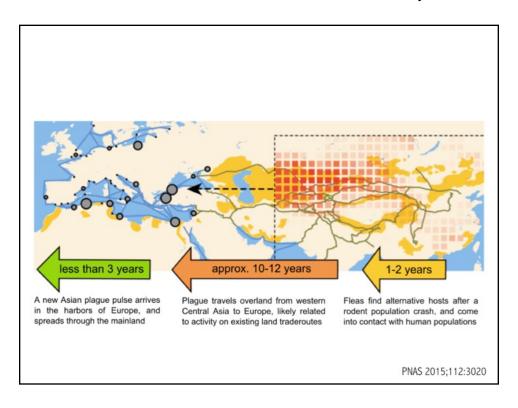
A Webber Training Teleclass www.webbertraining.com

Infectious Diseases in a Borderless World
Prof. Dr. Leo Visser, Leiden University Medical Center, The Netherlands
Broadcast live from the 2017 Infection Prevention Society conference





A Webber Training Teleclass www.webbertraining.com

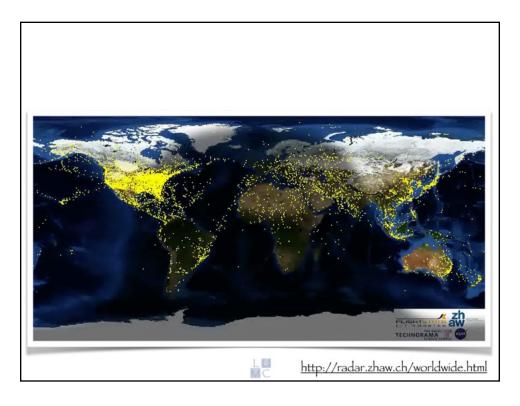




A Webber Training Teleclass www.webbertraining.com

Plague

- Evolutionary genetic adaptation
 Yersinia pseudotuberculosis
- High host plasticity as vector-borne disease with rodent reservoir
- Catalyzing changes in climate and socio-economic conditions
- Trade and travel



A Webber Training Teleclass www.webbertraining.com

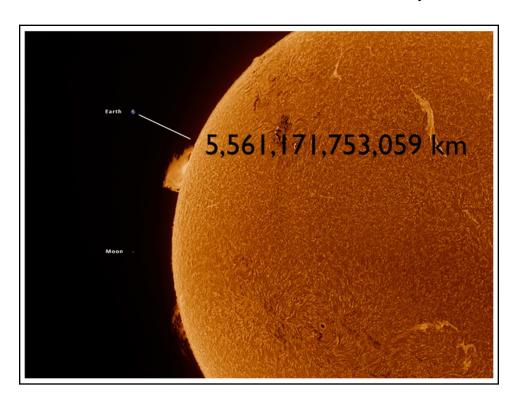
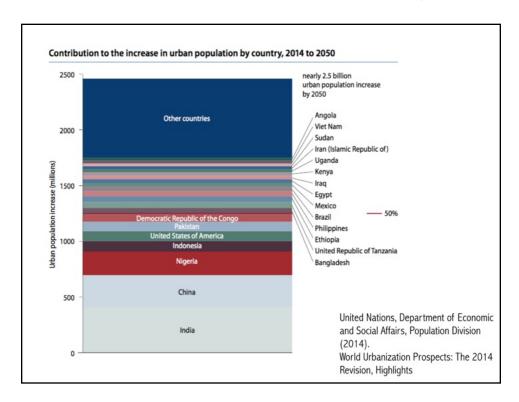


TABLE 1. POPULATION OF THE WORLD AND MAJOR AREAS, 2015, 2030, 2050 AN	ND 2100,
ACCORDING TO THE MEDIUM-VARIANT PROJECTION	

	1000	Population (millions)		
Major area	2015	2030	2050	2100
World	7 349	8 501	9 725	11 213
Africa	1 186	1 679	2 478	4 387
Asia	4 393	4 923	5 267	4 889
Europe	738	734	707	646
Latin America and the Caribbean	634	721	784	721
Northern America	358	396	433	500
Oceania	39	47	57	71

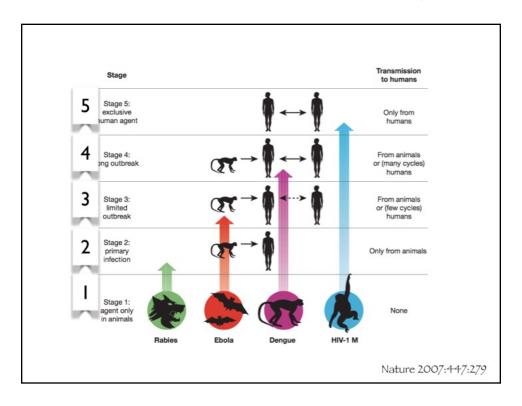
Source: United Nations, Department of Economic and Social Affairs, Population Division (2015). World Population Prospects: The 2015 Revision. New York: United Nations.

United Nations World Population Prospects: The 2015 Revision, Key Findings and Advance Tables



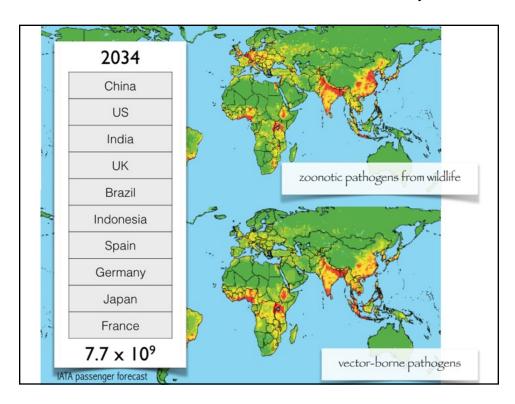
- How do new infections emerge?
- What have we learned from epidemics of 21st century?
- What will the future bring in this borderless world?

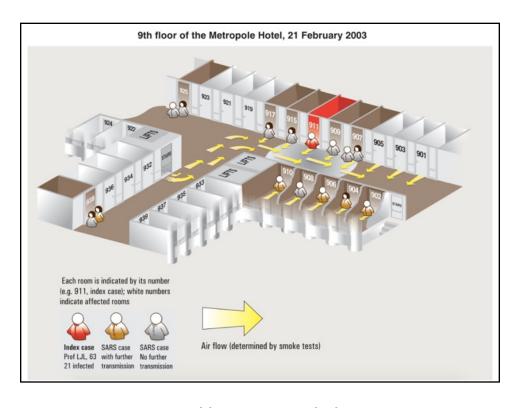




Related non- human primate	smallest species barrier	hunting	HIV (Simian TLV)
Vector-borne	high host plasticity	antropophilic biting behaviour	dengue chikungunya zika
Bird or bat	high geographical dispersal	amplification domestic animal	influenza (MERS-CoV)
Domestic animal	intensity of contact	agricultural activity	Measles (Q-fever)
Wild animal	direct or indirect contact	hiking, hunting, wet markets	Leptospirosis (monkey pox)
			Scientific Reports 2015

Infectious Diseases in a Borderless World
Prof. Dr. Leo Visser, Leiden University Medical Center, The Netherlands
Broadcast live from the 2017 Infection Prevention Society conference





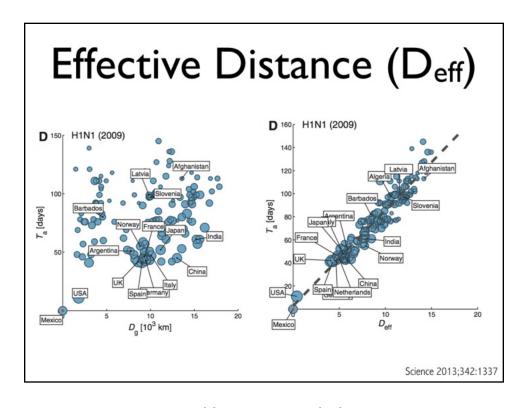
A Webber Training Teleclass www.webbertraining.com





A Webber Training Teleclass www.webbertraining.com

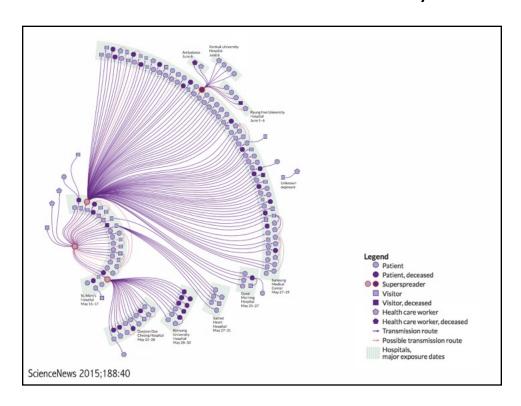






MERS-CoV (2015) Medical shopping Late diagnosis Crowding ER and culture of family care-giving visitors Quarantine failure of superspreaders Poor communication and failure to build trust Medical shopping Restrict hospital visitors Hospital hygiene and infection control Risk communication 1 Hosp Infection 2017;95:207

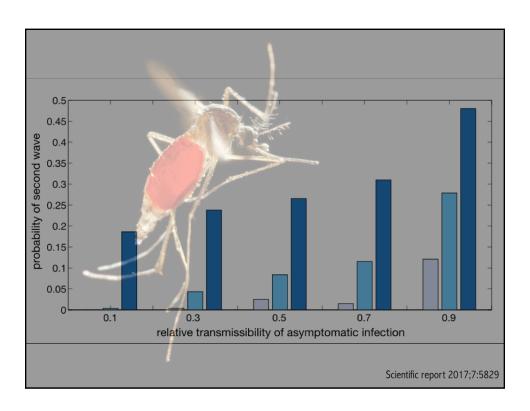
Infectious Diseases in a Borderless World
Prof. Dr. Leo Visser, Leiden University Medical Center, The Netherlands
Broadcast live from the 2017 Infection Prevention Society conference



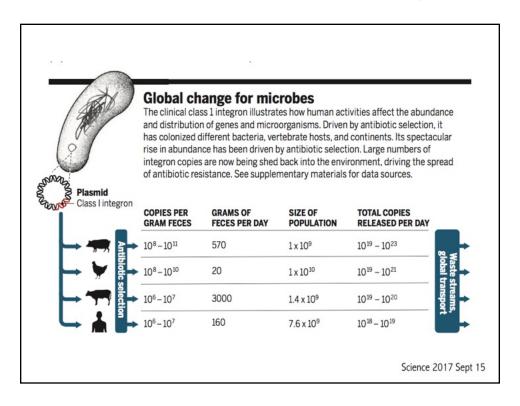


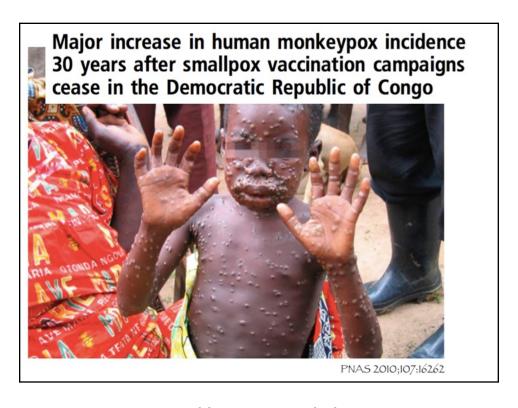
Infectious Diseases in a Borderless World
Prof. Dr. Leo Visser, Leiden University Medical Center, The Netherlands
Broadcast live from the 2017 Infection Prevention Society conference



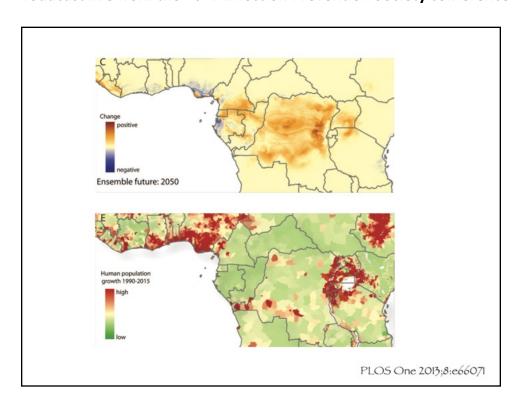


A Webber Training Teleclass www.webbertraining.com





A Webber Training Teleclass www.webbertraining.com



- Recent epidemics showed how densely connected we are as a global community;
 we are only as safe as the most fragile states
- Air travel, population growth, encroachment on previously sparsely populated areas in Africa and Asia, climate change, civil unrest and conflict amplify the risk of outbreaks and epidemics



- Be prepared for the unexpected
 Make infectious control practices work
- Strengthen existent public health surveillance systems and infrastructure
- Support low-income countries to implement
 2005 International Health regulations
- Adapt the Pandemic Influenza Preparedness
 Framework to other pathogens





- V	www.webbertraining.com/schedulep1.php
September 28, 2017	HOW TO PUBLISH IN THE JOURNALS AND WHY IT MATTERS Speaker: Prof. Elaine Larson, Columbia University, Mailman School of Public Health
October 5, 2017	(FREE Teleciass) INFECTION CONTROL GUIDELINES THAT DID NOT WORK AGAINST EBOLA Speaker: Prof. Bjørg Marit Andersen, Oslo University Hospital
October 12, 2017	(FREE Teleclass) STRENGTHENING IPAC STRUCTURES THROUGH EDUCATION IN LOW- INCOME OR MIDDLE-INCOME COUNTRIES Speaker: Prof. Shaheen Mehtar, Infection Control Africa Network, and Stellenbosch University, Cape Town
October 26, 2017	INFECTION CONTROL IN PARAMEDIC SERVICES Speaker: Jennifer Amyotte, City of Greater Sudbury Paramedic Services, Canada
October 31, 2017	(FREE European Teleclass) INFECTION PREVENTION CHALLENGES AMONG HOSPITALIZED CHILDREN AND NEONATES IN AFRICA Speaker: Prof. Dr Angela Dramowski, Stellenbosch University, Cape Town
November 9, 2017	CLEANING THE GREY ZONES OF HOSPITALS: LESSONS FROM A COMMUNITY-BASED TEACHING HOSPITAL Speaker: Prof. Makeda Semret, McGill University, Montreal

