

Global Vector Control:

Are we doing the right thing?

Are we doing things right?

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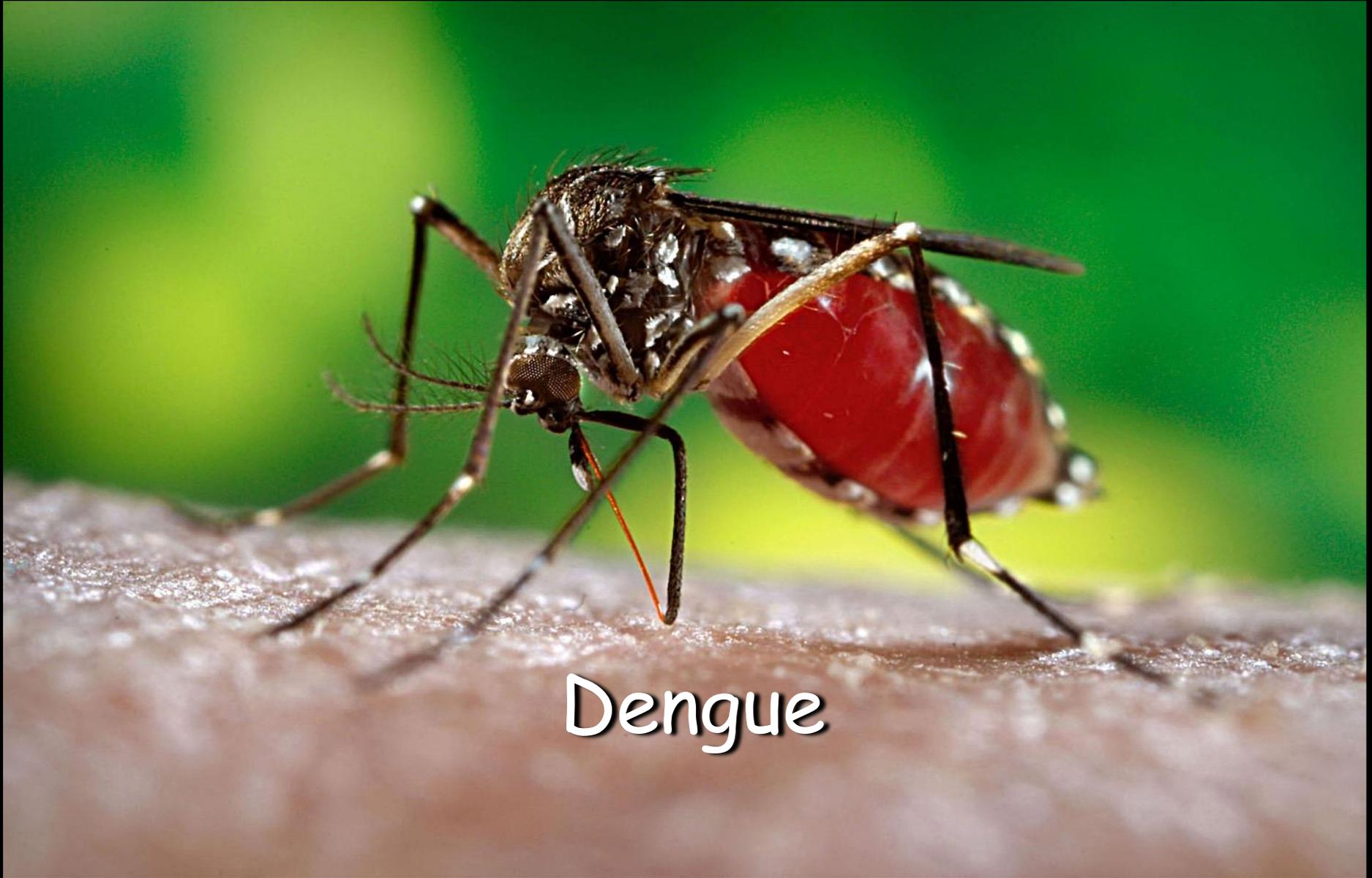


Disclaimer

The views and opinions expressed
here are my own and mine only.



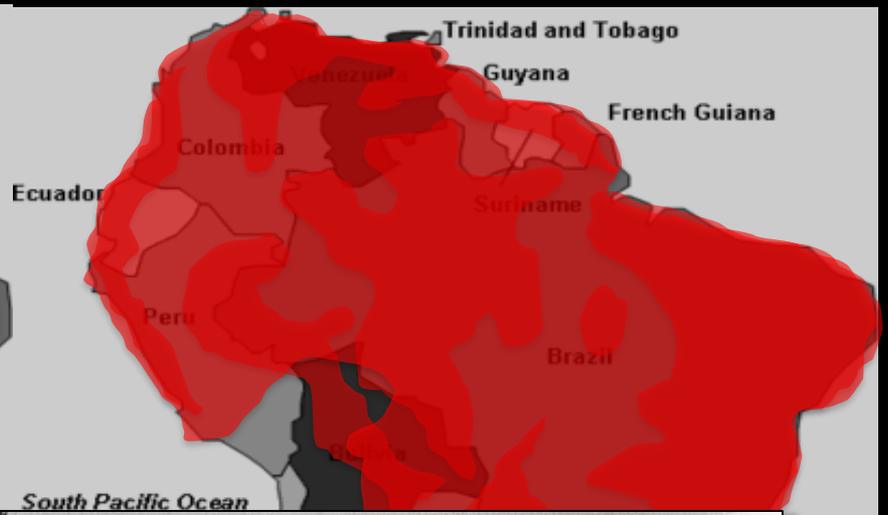




Dengue



≈ 1967

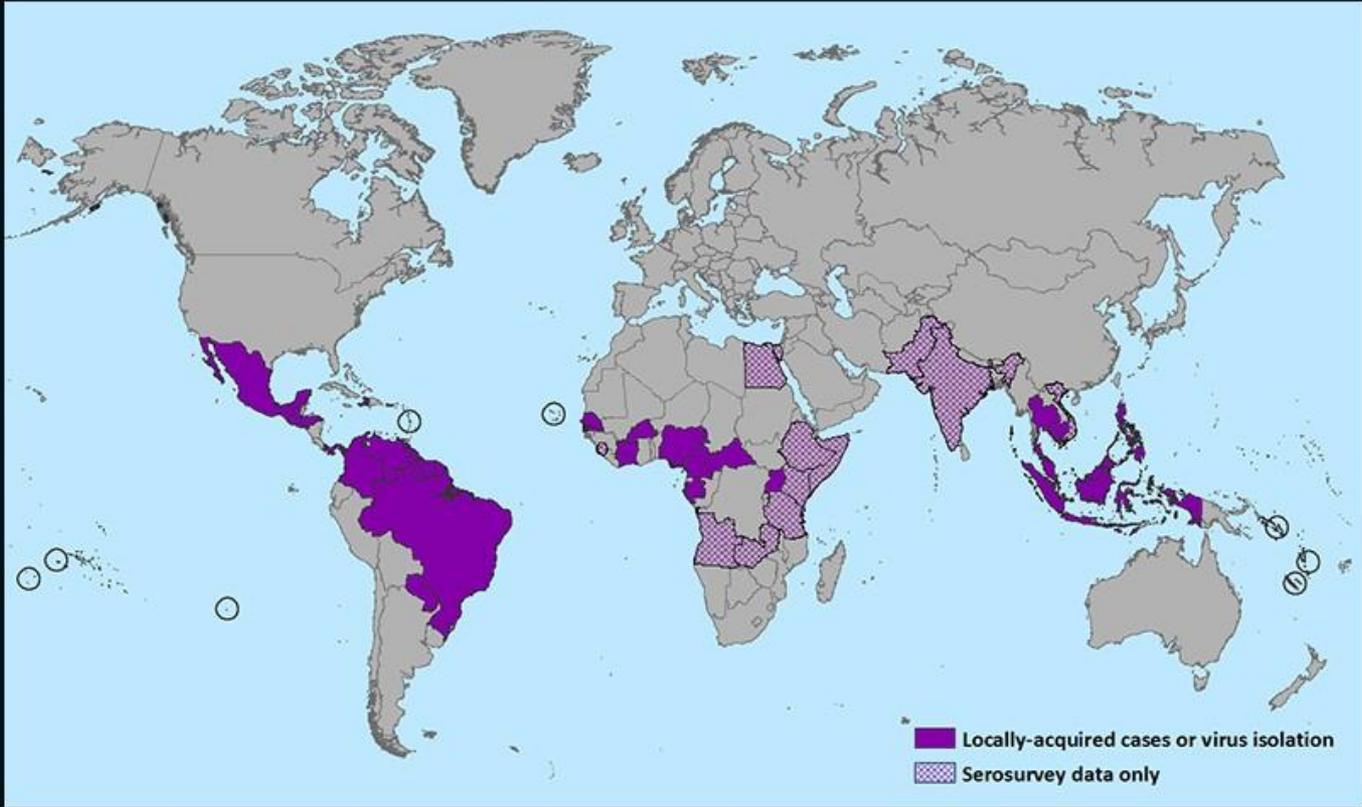


2000



ZIKA





Countries with cases of Zika virus in the Americas



A close-up photograph of Margaret Chan, the Director General of the World Health Organization (WHO). She is wearing glasses and has her hand resting on her chin, looking thoughtfully towards the camera. The background is a solid blue color.

“The spread of Zika is the price being paid for a massive policy failure on mosquito control. Experts dropped the ball in the 1970s with regards to getting a handle on disease-carrying insects.”

Margaret Chan, Dir. Gen. WHO/OMS
World Health Assembly 2016

<http://www.bbc.com/news/health-36361326>



Why can't mosquitos
SUCK FAT
instead of blood?

botl.com

Malaria



The Global Strategy on Malaria Vector Control

"Insecticide-treated nets (ITNs)
can greatly reduce malaria
disease transmission,

The Lancet online, June 21, 2007 DOI:10.1016/S0140-6736(07)60951-9

Buy a Net,



Save a Life

The Net Mapping Project (2016)

Nets Delivered (2004 -2016)

Sub-Saharan Africa	1,213,107,132
<u>Rest of the World</u>	<u>189,695,459</u>
Total:	1,402,802,591

AMP The Alliance
for Malaria Prevention

Expanding the ownership and use of mosquito nets

UNITED NATIONS
FOUNDATION

 **NothingButNets.net**

The World Malaria Report:
≥ 50% reduction in global
mortality since 2000.

The World Malaria Report:

"... in 41 of the 103 countries reporting, which account for 80% of estimated cases, it is not possible to reliably assess malaria trends using the data submitted to WHO as information systems are weak and unreliable."

The omitted truth about LLINs

"Insecticide-treated nets (ITNs) can greatly reduce malaria disease transmission,

The omitted truth about LLINs

"Insecticide-treated nets (ITNs) can greatly reduce malaria disease transmission, but only if their use and coverage is sufficiently high. At low coverage, the mosquitoes that are deflected by the nets will tend to seek out people not under a net. In this case, there would be little or no reduction in overall transmission, only a diversion. If transmission was diverted from high-risk to low-risk individuals, that would be beneficial, but there would be no major effect on the intensity of malaria transmission in the community."

The Lancet online, June 21, 2007 DOI:10.1016/S0140-6736(07)60951-9

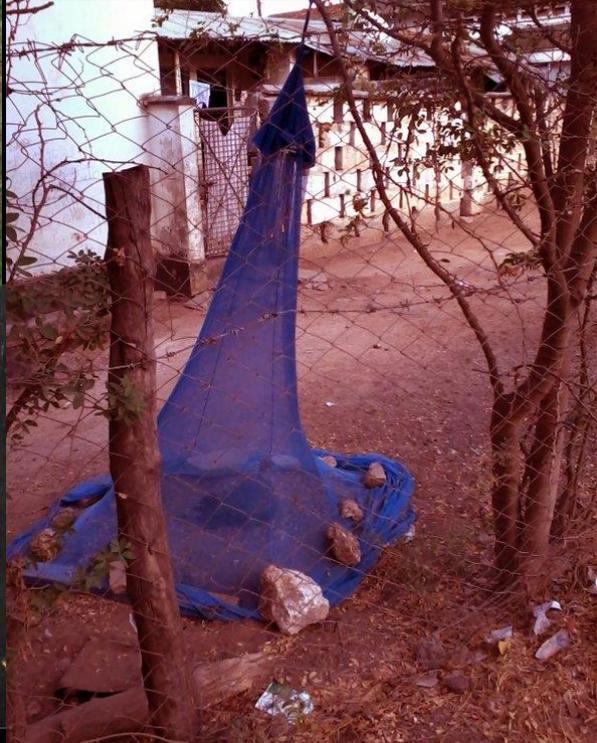


Sun 28 Jul 2013 12:44

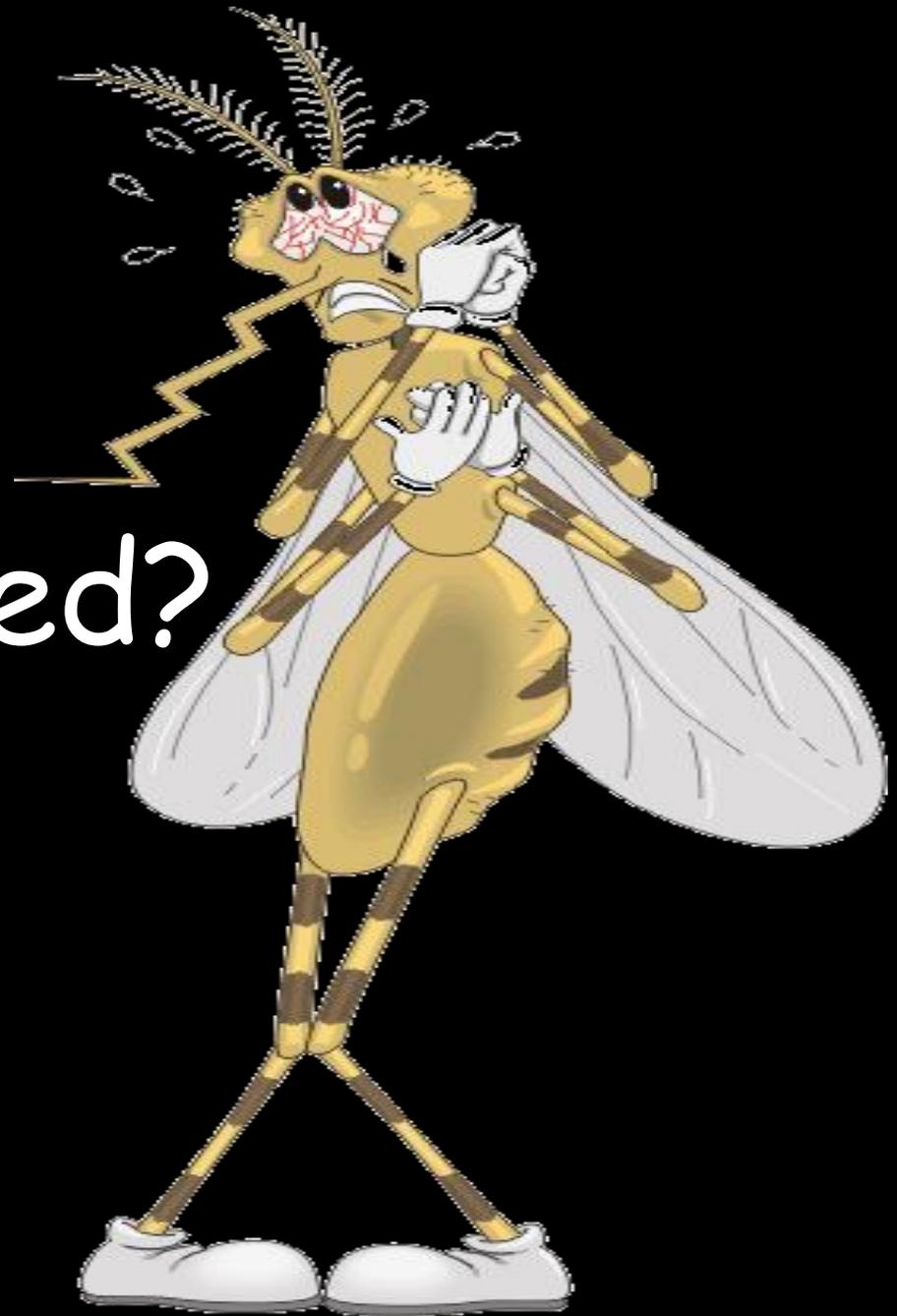
Malaria nets are failing in Africa

"A British leading expert on malaria has revealed insecticides used on nets in Africa are failing"

<http://www.clickliverpool.com/news/liverpool-news/1219431-malaria-nets-are-failing-in-africa-warns-leading-expert.html>



What happened?



Public Enemy No. 1



1996 World Health Assembly Resolution 50.13

1996 World Health Assembly Resolution
50.13 called for member States to:

"Take steps to reduce the reliance on
insecticides for vector-borne disease control
through the promotion of integrated pest-
management approaches in accordance to WHO
guidelines, and through the support for the
development and adaptation of viable
alternative methods of disease vector control."

"IVM can be considered as the utilization of all appropriate **technological and management techniques** to bring about an effective degree of vector suppression."

WHO Position Statement on IVM (2008)

IVM is a rational decision-making process to determine the most appropriate mix of interventions drawing on resources beyond health, both public and private. These include LLIN, IRS, larviciding, space spraying, environmental manipulation, IEC, etc. Otherwise, suboptimal use of available resources will continue and millions of people will remain vulnerable.

The Global Malaria Business Plan
does not include active vector
population suppression interventions.



Larval Source Management



LARVAL SOURCE MANAGEMENT

A supplementary measure
for malaria vector control

AN OPERATIONAL MANUAL



World Health
Organization

*A toolkit for
integrated vector
management in
sub-Saharan Africa*



“LSM can be a useful supplement, but its use is recommended only in locations where breeding sites are 'few, fixed, and findable.'”

WHO OFFSET PUBLICATION No. 66

MANUAL ON ENVIRONMENTAL MANAGEMENT FOR MOSQUITO CONTROL

WITH SPECIAL EMPHASIS ON MALARIA VECTORS



World
Health
Organization,
Geneva

M. E. LLUBERAS



MANUAL ON LARVAL CONTROL OPERATIONS IN MALARIA PROGRAMMES

PREPARED BY
THE WHO DIVISION OF MALARIA
AND OTHER PARASITIC DISEASES

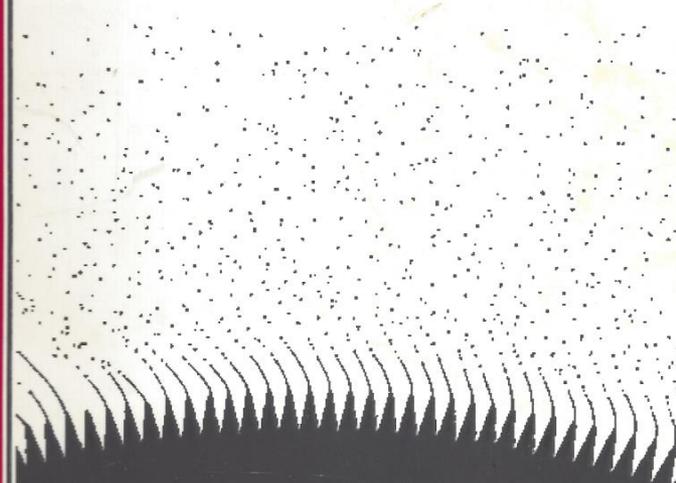
WORLD HEALTH
ORGANIZATION
GENEVA, 1973

Adulticiding

M. F. LLUBERAS

Equipment for Vector Control

Third Edition



World Health Organization
Geneva



***Space spray application of
insecticides for vector and
public health pest control***
A practitioner's guide

*Communicable Disease Control, Prevention and Eradication
WHO Pesticide Evaluation Scheme (WHOPES)*



World Health Organization
Geneva

KEEP



RIGHT

Final Thoughts

Oh dear!



"Before DDT, malariologists were trained as problem solvers. After DDT, malariologists were trained as solution implementers."

Dr. José Nájera (2011)

You can't learn to ride
a bicycle from a book.

"There's no such thing as partial success in species eradication. One either achieves glorious success or dismal failure"

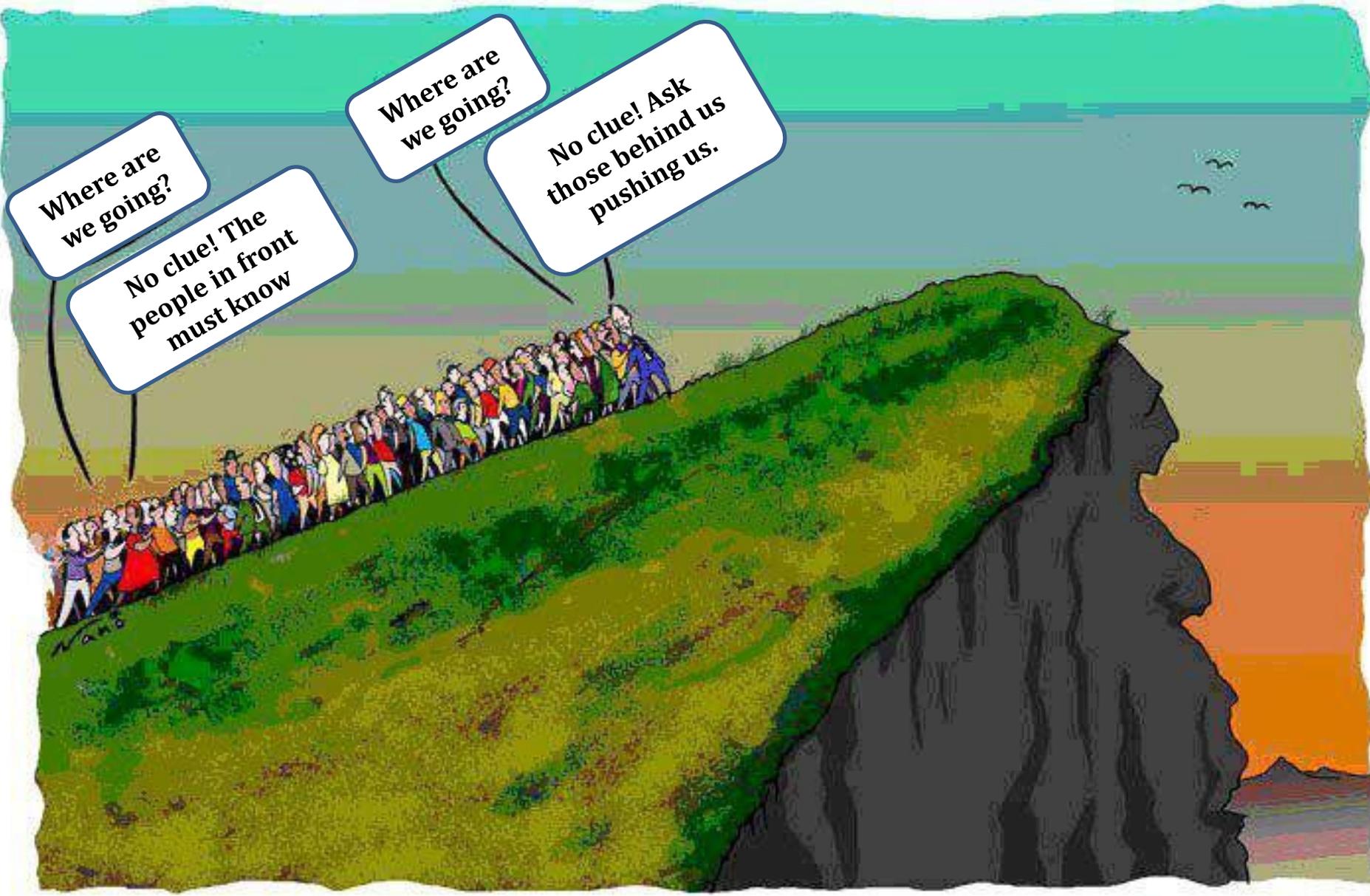
Fred Soper (ca 1940)

Where are we going?

No clue! The people in front must know

Where are we going?

No clue! Ask those behind us pushing us.



"Lead, follow or get
out of the way!"

US Marine Corps axiom

"Consensus seeking is clear
evidence of the absence of
leadership."

Margaret Thatcher

Insanity is doing the same thing
over and over again and expecting
different results each time.

Albert Einstein

THANK YOU!

maharba menji

Dapandula

merci

re a leboga

basop

twasakwila chinji

asante sana

tatenda

matondo

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kaelegoga

zikomo

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gracias

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ahshanteni sikolo

iekanyale

Mwebane munonga

moito obrigado