

Logistics of Reducing Impact of Communicable Diseases

Lisa Hare

John Snow, Inc.



GEORGIA TECH
Health & Humanitarian Logistics Center
A Unit of the Supply Chain & Logistics Institute

Georgia Tech **ISyE**
H. Milton Stewart School of
Industrial and Systems Engineering



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Supply Chain Management for Malaria



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Lisa Hare, Director, Task Order Malaria



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Session Overview

- Background
- Supply chain considerations in managing malaria products
- Approaches to improve availability of malaria products



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Background: who we are, what we do

- John Snow, Inc. (JSI)
 - Public health consulting firm established in 1978
 - Over 20 years experience working to ensure the availability of pharmaceuticals and other health supplies in Africa, Latin America and Asia
- USAID | DELIVER PROJECT, Task Order Malaria
 - Procured \$260,000,000 worth of malaria products since 2007 for 21 African countries
 - Work to strengthen the public health supply chains in 12 African countries



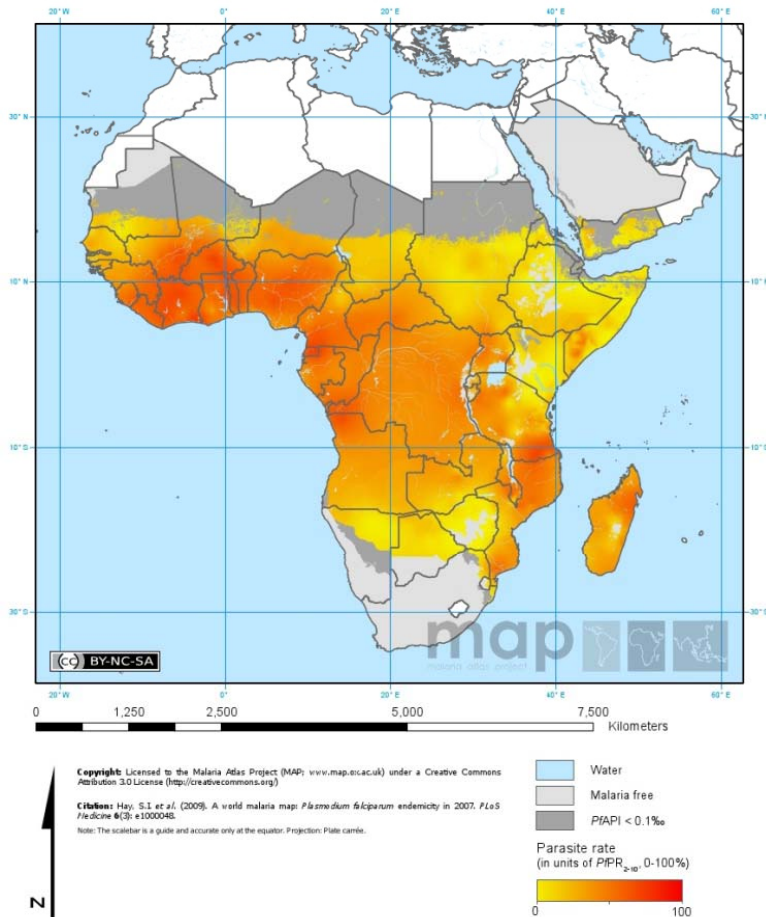
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Background: Malaria (Mal = Bad and Aria = Air)

The spatial distribution of *Plasmodium falciparum* malaria endemicity in Africa +



- 250 million episodes of malaria annually, Africa accounts for 90%
- 750,000 deaths annually, 85% of which are in children under the age of 5
- Changing epidemic: endemic to epidemic, control to elimination



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Background: malaria control, reduce the disease burden

- Suppress the vector
 - Indoor residual spraying
 - Insecticide treated nets
- Kill the parasite
 - Rapid diagnostic tests
 - Prompt and effective treatment
- Presumptive treatment



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Supply chain considerations: Disease



- Seasonal with highest prevalence during rainy season
- High burden disease: top one or two causes of morbidity and mortality
- Fatal in children (24 – 48 hours if untreated)
- Simultaneous interventions: prevention, diagnosis, treatment



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Supply chain considerations: Products



- High value, high demand
- Bulky
- Short shelf life
- Multiple presentations based on weight/age



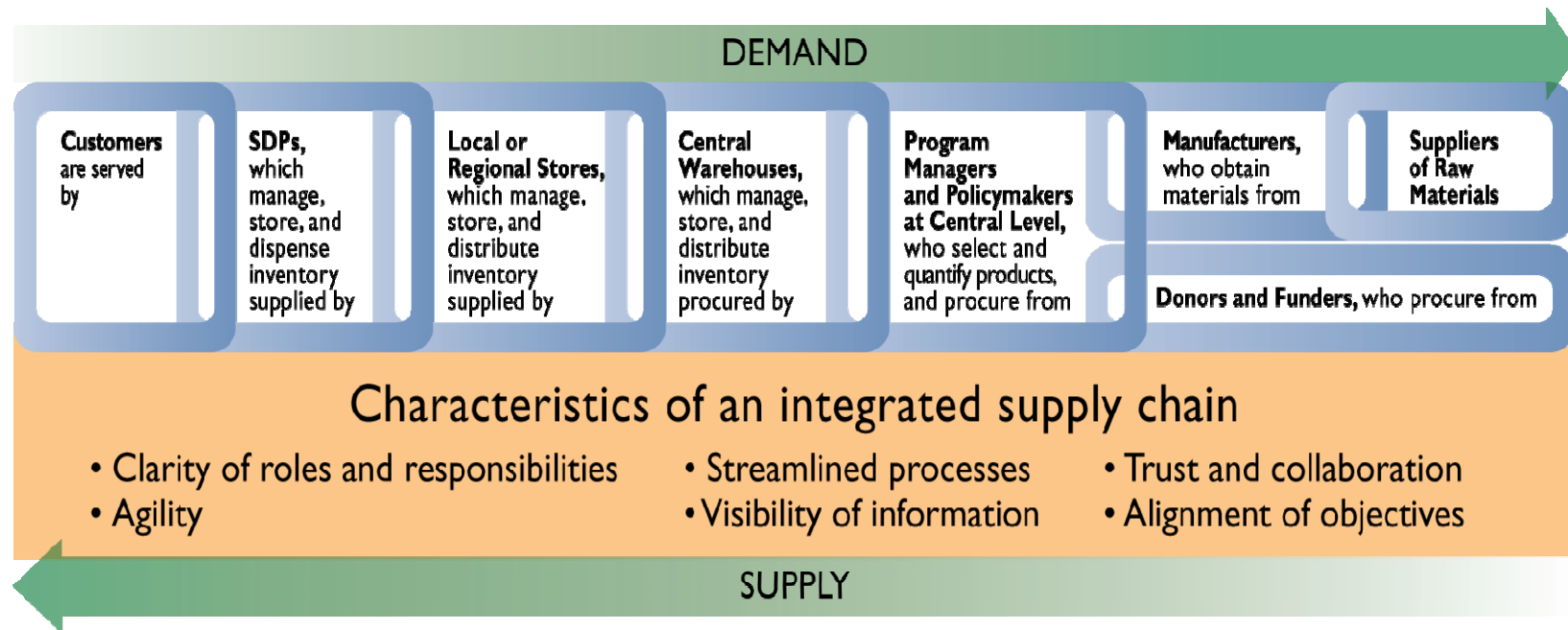
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Approaches: Build high performing systems



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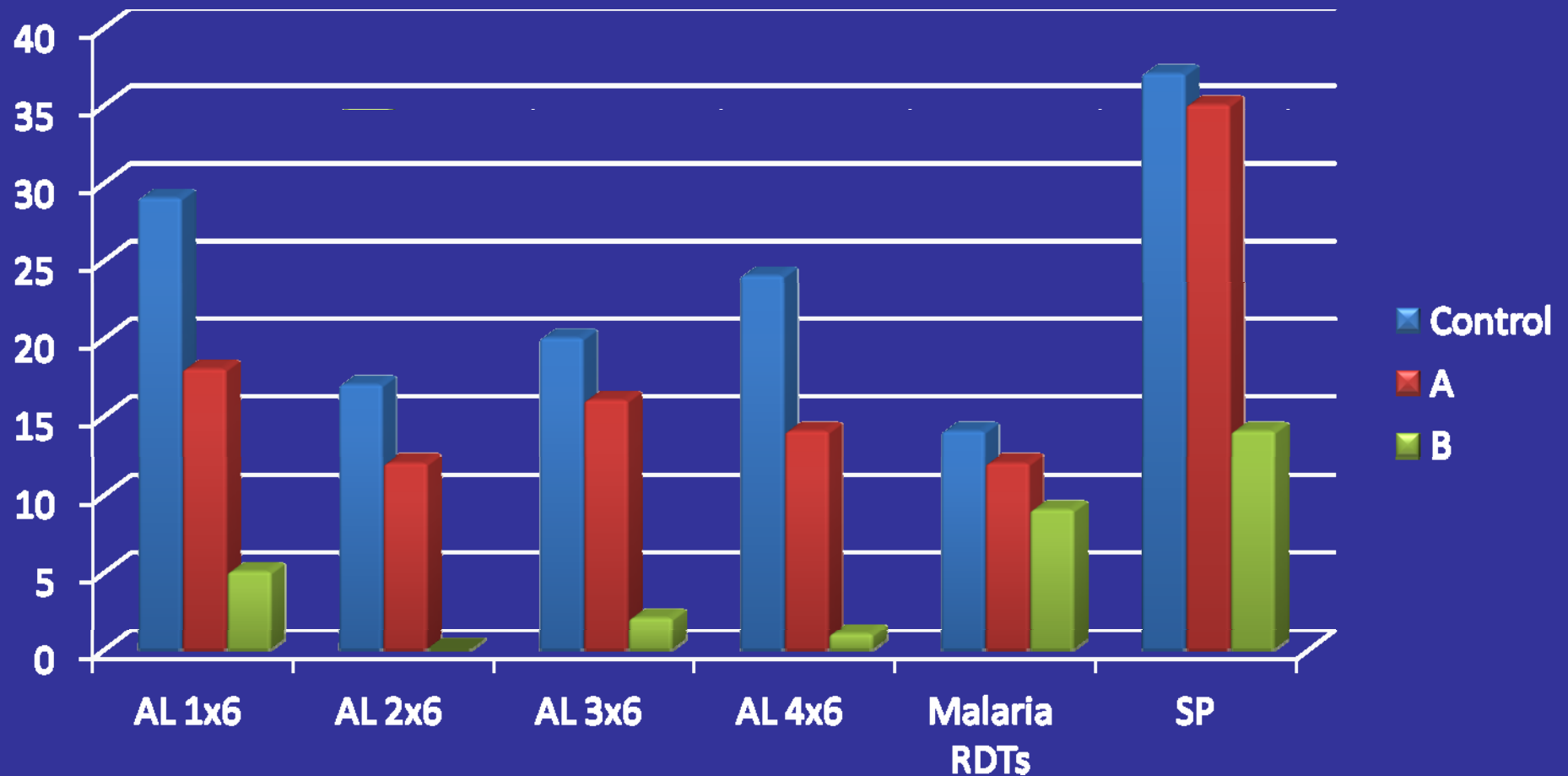




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Approaches: Zambia supply chain pilot

Reduced duration of stock outs (in days)





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Guidelines for Managing the Malaria Supply Chain

A Companion to the Logistics Handbook



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Approaches: Specific malaria supply chain interventions

- Change approach for calculating average monthly consumption to account for seasonality
- Add tiers for areas inaccessible during rainy season
- Include days out of stock on reports



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Thank you. Questions?

