

Moving Prevention Research Forward

Emerging Challenges in Designing Prevention Research Symposium

July 23, 2007

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Forum for Collaborative HIV Research

4th IAS Conference on HIV Pathogenesis, Prevention
and Treatment

Acknowledgments

- Forum Biomedical Prevention Working Group <http://www.hivforum.org/projects/Biomedical%20Prevention.htm>

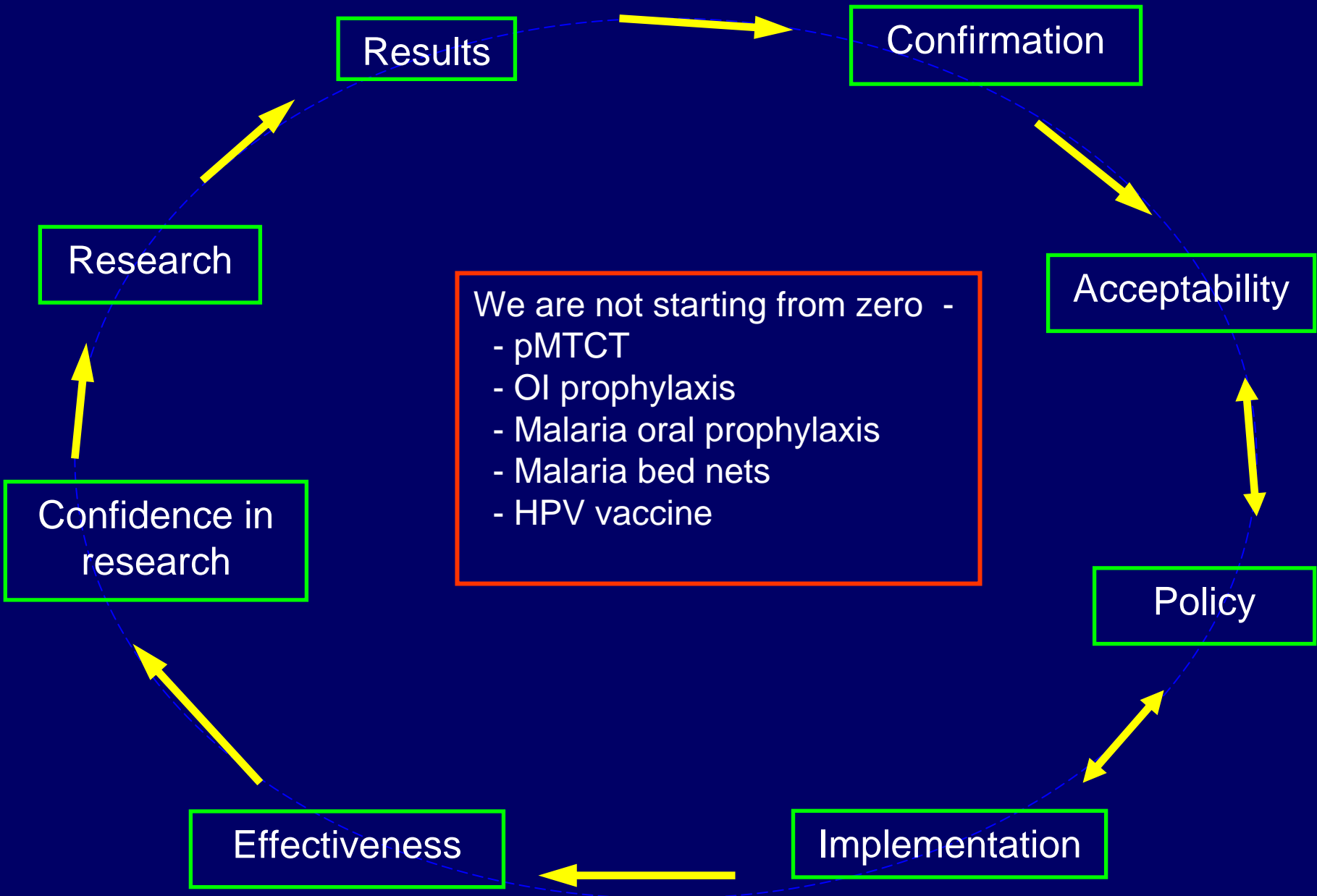
A NEW ERA FOR HIV PREVENTION?

REPORT OF THE FORUM FOR COLLABORATIVE HIV RESEARCH
BIOMEDICAL INTERVENTIONS OF HIV PREVENTION WORKING
GROUP SEPTEMBER 2006 MEETING*

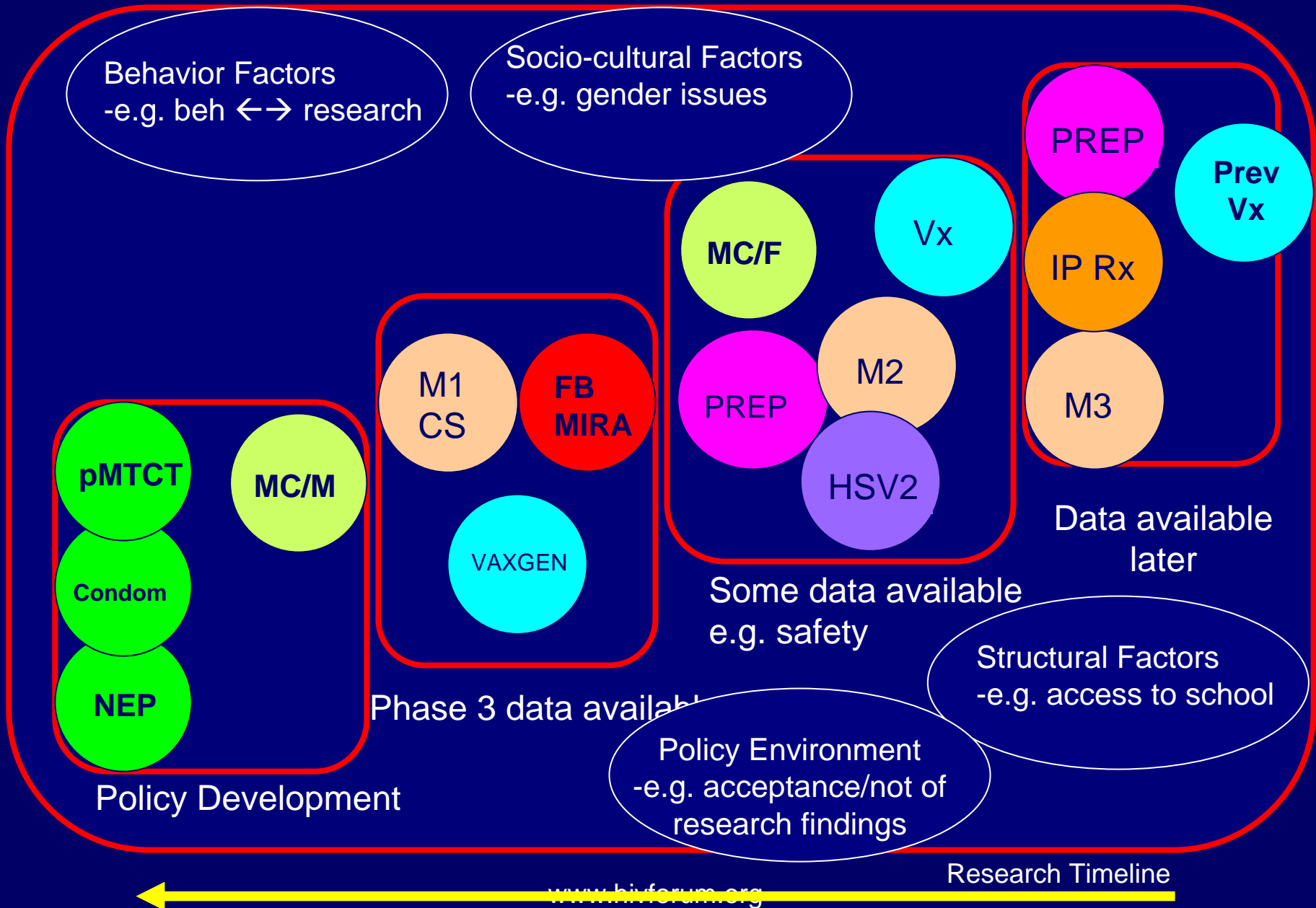
Written on behalf of Working Group Members by Chris Collins and edited by Meagan Lyon and Veronica Miller

*In collaboration with the Bill & Melinda Gates Foundation

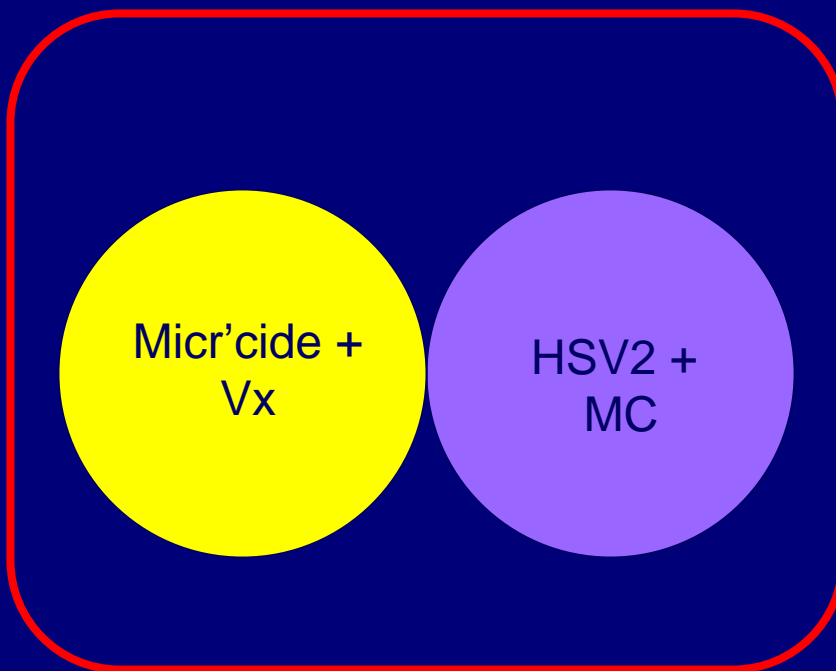
Effective research requires the effective translation of research results into implementation at the community level



Current Prevention Research Landscape



Missing in the Landscape: Research on combo approaches



Data available later, later

Effective research will be sustainable

- Funding and sustainability in funding
 - Communication among funders & sponsors
 - Better integration of funding mechanisms (e.g. program vs. research streams)
 - How do we get the most out of research \$\$?

Sustainability of Research Sites

- Site development and sustainability of sites
 - What is the impact of research sites and research programs on communities?
 - Turf wars will not build community support

Cooperation, Coordination & Collaboration

- Cooperation and coordination among prevention research programs
 - Solving cross-cutting issues
- Cooperation & collaboration is a better business model than go-it-alone and silo approaches

Press is not the best place for expert discourse

HIV trial doomed by design, say critics

Controversy over a ground-breaking study of an experimental HIV prevention tool has underscored the field's need to revamp its approach to clinical trials.

Erika Check

NATURE|Vol 448|12 July 2007

"The microbicide development field cannot afford to take a further hit."

- Urgency of HIV pandemic and passions unleashed by urgency are real
- Need for a mechanism for critical but collegial protocol discussions
- Need for (transparent) review process for prevention clinical trials

“Good Prevention Research Practice”

Available resources (\$\$, high-incidence sites, etc) vs. trial size requirement

It's not just a matter of resources: each prevention trial will impact on every other trial

- changing standard of prevention care
- science is also very interconnected

Confidence in Research

- Buy in from communities absolute necessity
- Community involvement and community ownership
 - Lack of trust: negative impact on community involvement
- Trust in scientific rigor when choosing products for large-scale trials

CABs alone do not constitute community ownership

- Kenya circumcision trial
 - 3 yrs community assessment prior to trial
 - District of Kisumu feels they have ownership of the research
 - Health authorities and communities poised to make circumcision available to everyone
 - Working to make it more available and affordable
- Rakai study
- Strong research programs embedded in local centers of excellence

Research & Policy

- Translation into policy once positive results are available
 - Demonstration that research results translate into effectiveness at the community level
 - Implementation research for efficacious interventions
 - Planning for implementation
 - D Smith @ IAS-ILF Symposium July 22
- Example: research clearly demonstrates effective interventions to prevent mother-to-child transmission

**BRINGING HIV PREVENTION TO SCALE:
AN URGENT GLOBAL PRIORITY**

2005, it is estimated that only 11% of HIV-infected pregnant women received antiretrovirals to reduce

FAILURE TO DELIVER HIV PREVENTION TO THOSE WHO NEED IT

| | |
|---|----|
| Condom Promotion | 8 |
| HIV Testing..... | 8 |
| Services for Sexually Transmitted Infections..... | 8 |
| Adult Male Circumcision..... | 8 |
| Prevention of Mother-to-Child Transmission | 10 |
| HIV Prevention for Injection Drug Users..... | 11 |
| HIV Prevention for Men Who Have Sex With Men... | 11 |
| HIV Prevention for Sex Workers..... | 12 |
| HIV Prevention for Prisoners..... | 12 |
| School-Based HIV Education..... | 12 |
| Blood Safety | 12 |
| Injection Safety..... | 12 |
| Universal Precautions in Health Care Settings | 12 |

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Research & Policy

Currently, the allocation of resources for HIV/AIDS prevention is seldom evidence based, primarily because of a lack of data on both the effectiveness and the cost of interventions (Feachem 2004).
(Bertozzi, Padian, Wegbreit et al DCP2 Chapter 18)

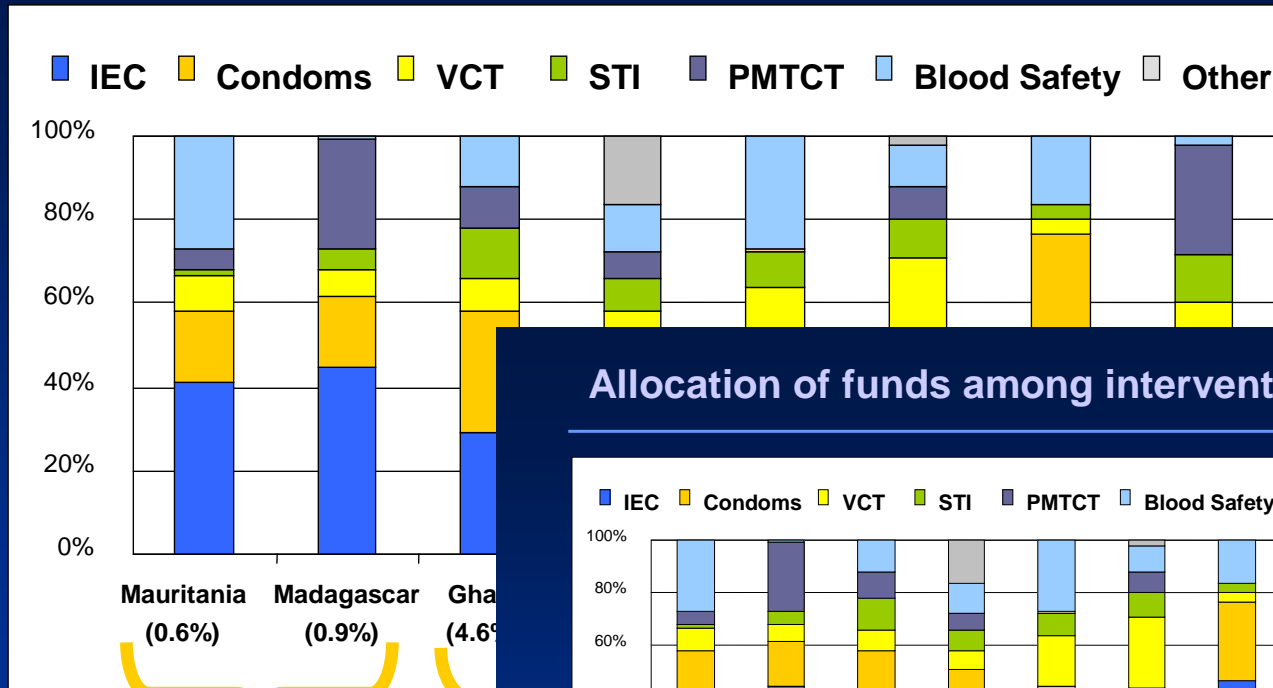
What information do policy makers need?



What information can research provide?

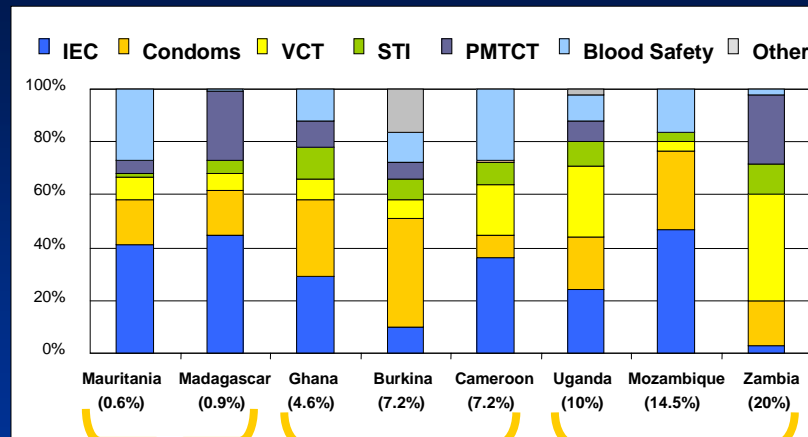
- Are policy makers asking?
 - Are they listening?
- How do researchers communicate data reach policy makers?
- Is there a global inventory of policy information need?
- Who is coordinating the agenda?

Allocation of funds among interventions



Concentrated

Allocation of funds among interventions



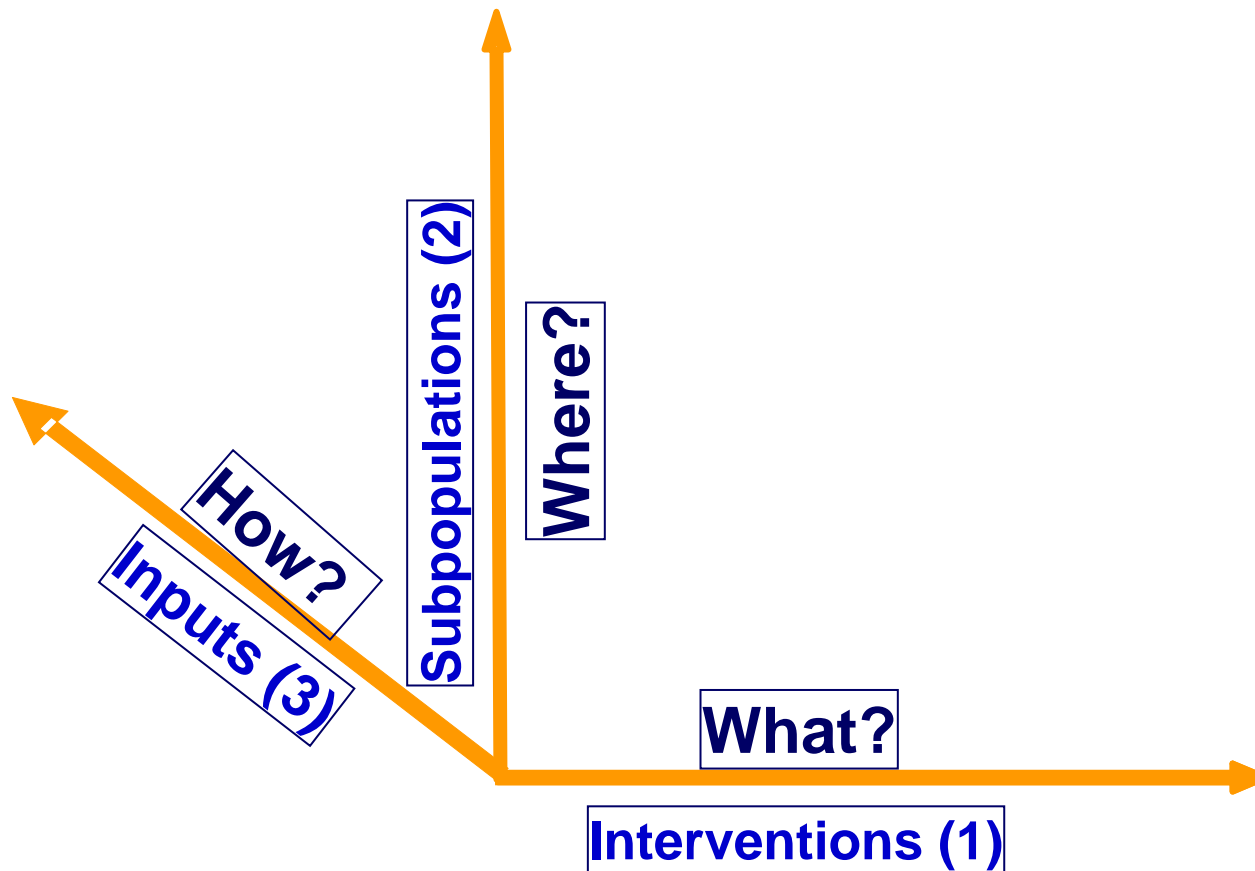
Concentrated

Generalized Low

Generalized High

Source: World Bank. 2005. Review of National HIV/AIDS Strategies for Countries Participating in the

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S Bertozzi, Statistical & Epidemiologic Methods in HIV Research Workshop, Vail, Colorado 2007
(www.hivforum.org)

Biomedical & Behavioral Research

- Role and impact of behavioral issues in biomedical research is complex
 - But can't be left out of the equation
- Use of biomedical intervention requires the appropriate behavior
 - Vaccines & non-coitally dependent interventions requires “less” behavior
- Behavioral prevention research in implementation
 - Maximizing preventive efficacy (e.g. avoiding risk compensation or behavioral disinhibition)
- “The problem with behavior is that it happens”
- Or not, depending on whether we are talking about risk behavior or preventive behavior

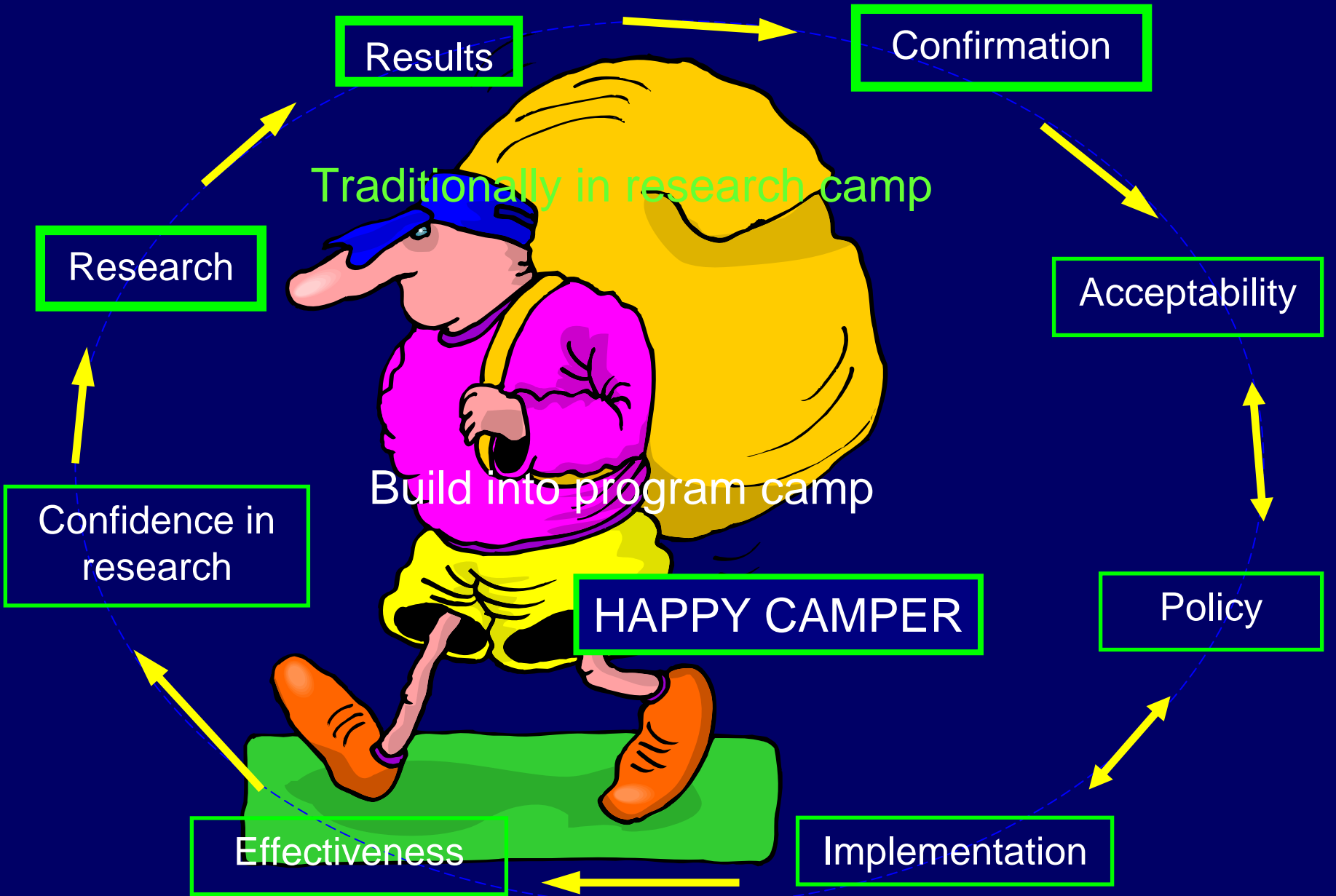
Prevention & treatment go hand-in-hand

- Support of prevention research programs
 - referral to HIV treatment facilities
 - Integration with other services: e.g. TB diagnosis and treatment
- Strengthen community buy-in and ownership

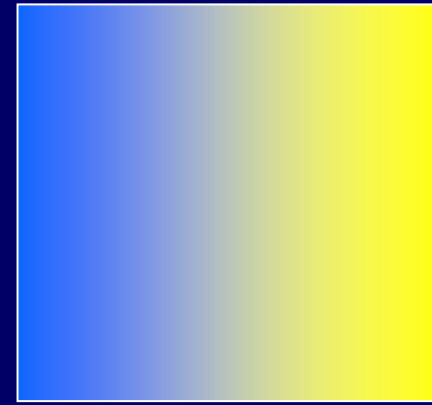
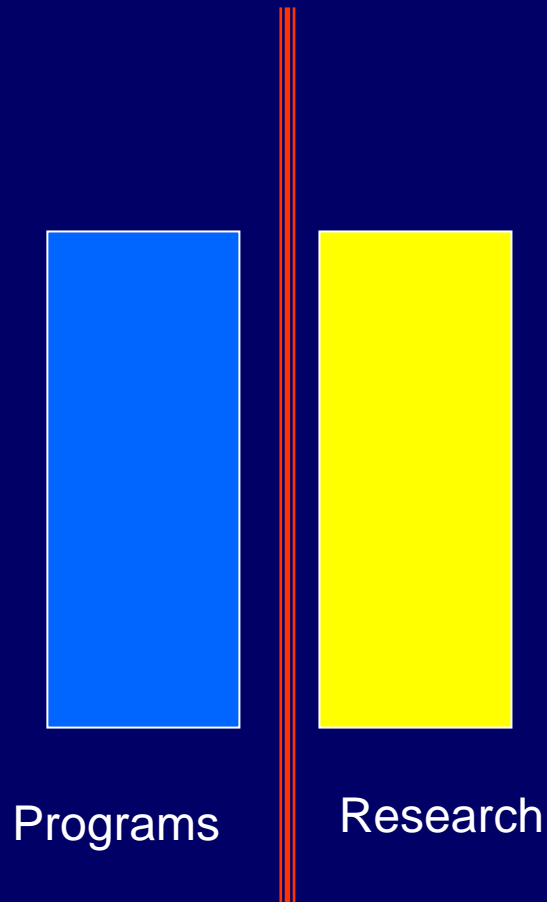
Challenges Over-Burdening Research



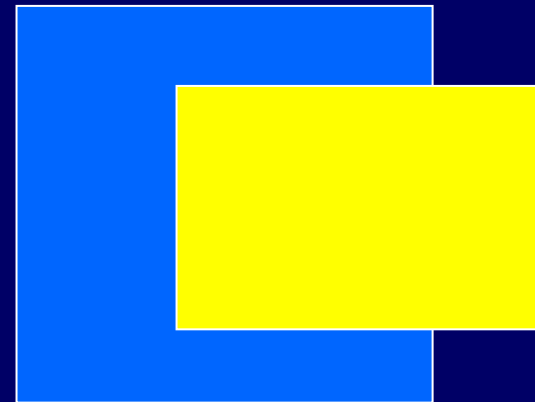
Grant; <http://www.hivforum.org/projects/Biomedical%20Prevention.htm>



Integrating research and programs



E.g. Program evaluation & Operational research



E.g. randomized clinical trials

Miller, 1st Interest Workshop; Kampala June 2007

Moving Prevention Research Forward

- Don't ignore lessons already learned
- Translation of research into effective policy and implementation
- Sustainability of research and research sites
- Cooperation, coordination and collaboration
- Community ownership and confidence in research
- Biomedical & behavioral research
- Treatment & prevention research

Prevention Intervention Toolkit

