



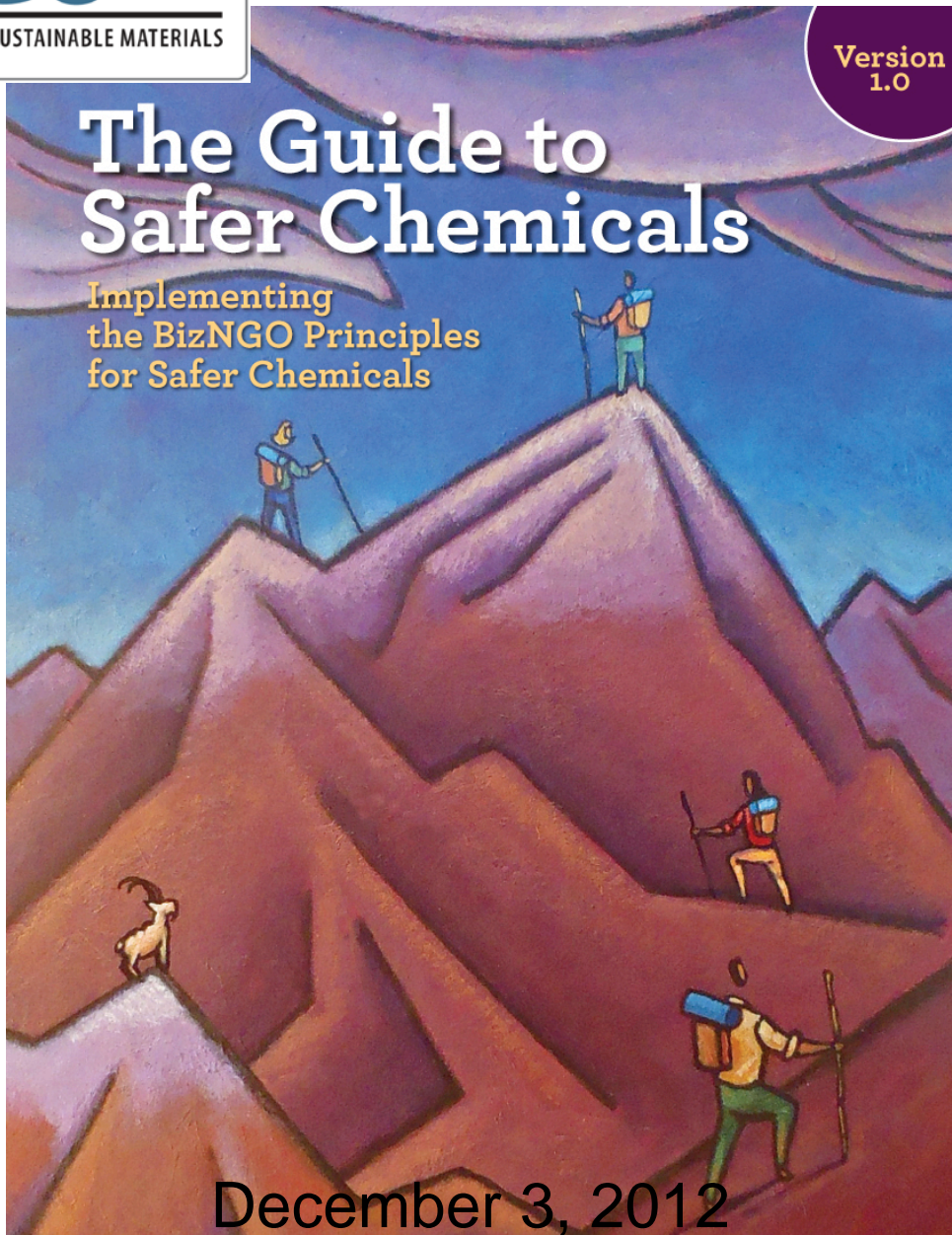
BizNGO

FOR SAFER CHEMICALS AND SUSTAINABLE MATERIALS

Version
1.0

The Guide to Safer Chemicals

Implementing
the BizNGO Principles
for Safer Chemicals



December 3, 2012

a project of



**CLEAN
PRODUCTION
ACTION**

BizNGO Principles for Safer Chemicals

Endorsers include ...

- American Sustainable Business Council
- Brooks Sports
- Construction Specialties, Inc.
- Dignity Health
- Forbo Flooring Systems
- HDR
- Health Care Without Harm
- Hewlett-Packard Company
- Hospira, Inc.
- Kaiser Permanente
- Method
- Naturepedic
- Novation
- Perkins+Will
- Practice Greenhealth
- Premier, Inc.
- Seventh Generation
- Shaw Industries
- Staples, Inc.
- Whole Foods Market, Inc.

1. Know and disclose product chemistry

2. Assess and avoid hazards

3. Commit to continuous improvement

4. Support public policies and industry standards

Using The Guide

A stylized illustration of a mountain range. The mountains are rendered in shades of purple, blue, and brown. Several hikers are shown on the peaks and slopes, some with backpacks and poles. A goat is visible on a lower slope. The overall style is painterly and somewhat abstract.

- **Measure internal performance, identify areas for improvement, and track progress**
- **Benchmark performance**
- **Use externally to explain and report on corporate performance and progress**
- **Use to create your own chemical management system**

The Guide to Safer Chemicals

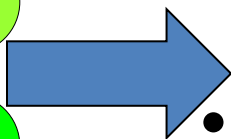
It is a Living Resource!

1. Know and disclose product chemistry

2. Assess and avoid hazards

3. Commit to continuous improvement

4. Support public policies and industry standards



- Marks pathways to safer chemicals
- Sets relative benchmarks for each Principle
- Specifies actions for each benchmark
- Presents examples of tools & business practices
- Suggests steps for downstream users

Summit

Know

All chemicals in supply chains & feedstock sources

Disclose

All chemicals in supply chains & feedstock sources

Assess & Avoid

Specify safer alternatives

Improve

Report progress to BizNGO Principles using *The Guide* (or equivalent)

Support

Integrate BizNGO Principles into legislation & speak to media

High Camp

Know

All chemicals in products

Disclose

All chemicals in products

Assess & Avoid

Select & implement safer alternatives to chemicals of high concern

Improve

Implement systems for managing data & identifying safer alternatives

Support

Collaborate with NGOs & integrate BizNGO Principles into regulations

Base Camp

Know

All chemicals of high concern in products

Disclose

Most chemicals in products

Assess & Avoid

Identify all chemicals of high concern

Improve

Endorse BizNGO Principles for Safer Chemicals

Support

Integrate BizNGO Principles into voluntary initiatives

Trailhead

Know

Some chemicals of high concern

Disclose

Presence/absence of some chemicals of high concern

Assess & Avoid

Create and implement restricted substances list (RSL)

Improve

Establish organizational policy

Support

Speak publicly on implementation

PRINCIPLE #2

Assess & Avoid Hazards

Each Chapter has this structure ...

- Ideal
- Intent
- Context
- Benchmarks: actions & examples
- Vignettes

A critical element in the implementation of a safer alternatives program is the frameworks and tools that organizations use to inform their identification of chemicals of high concern, evaluation of alternatives, and the selection and implementation of safer alternatives.

PRINCIPLE #2

Assess & Avoid Hazards

**Safer
Substitutes**

Summit

5. Specify safer alternatives, including green chemistries
6. Select & implement safer alternatives to all chemicals of high concern in products, processes, & feedstocks

High Camp

4. Select & implement safer alternatives to chemicals of high concern in products or processes

Base Camp

2. Establish & implement program to identify all chemicals of high concern in products or processes (for example, using GreenScreen List Translator)
3. Establish & implement program to evaluate alternatives to chemicals of high concern (for example, using BizNGO Alternatives Assessment Protocol & GreenScreen)

Trailhead

1. Create & implement a restricted substances list (RSL) for chemicals of high concern (for example SIN List)

Baseline

Comply with laws & regulations

Summit

Assess & Avoid
Specify safer alternatives

High Camp

Assess & Avoid
**Select & implement safer alternatives
to chemicals of high concern**

Base Camp

Assess & Avoid
Identify all chemicals of high concern

Trailhead

Assess & Avoid
**Create and implement restricted
substances list (RSL)**



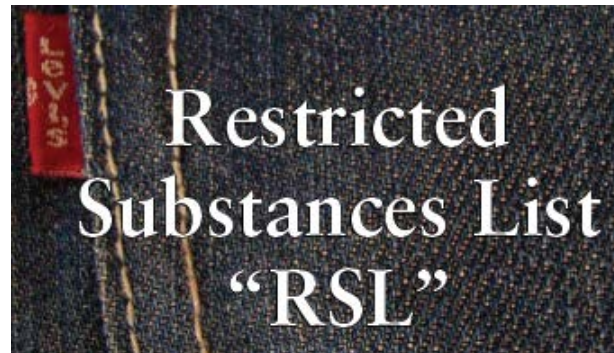
BizNGO

FOR SAFER CHEMICALS AND SUSTAINABLE MATERIALS

Trailhead - Create and Implement Restricted Substances List (RSL) – some chemicals beyond compliance



Restricted Substances List (RSL)



PRINCIPLE #2

Assess & Avoid Hazards

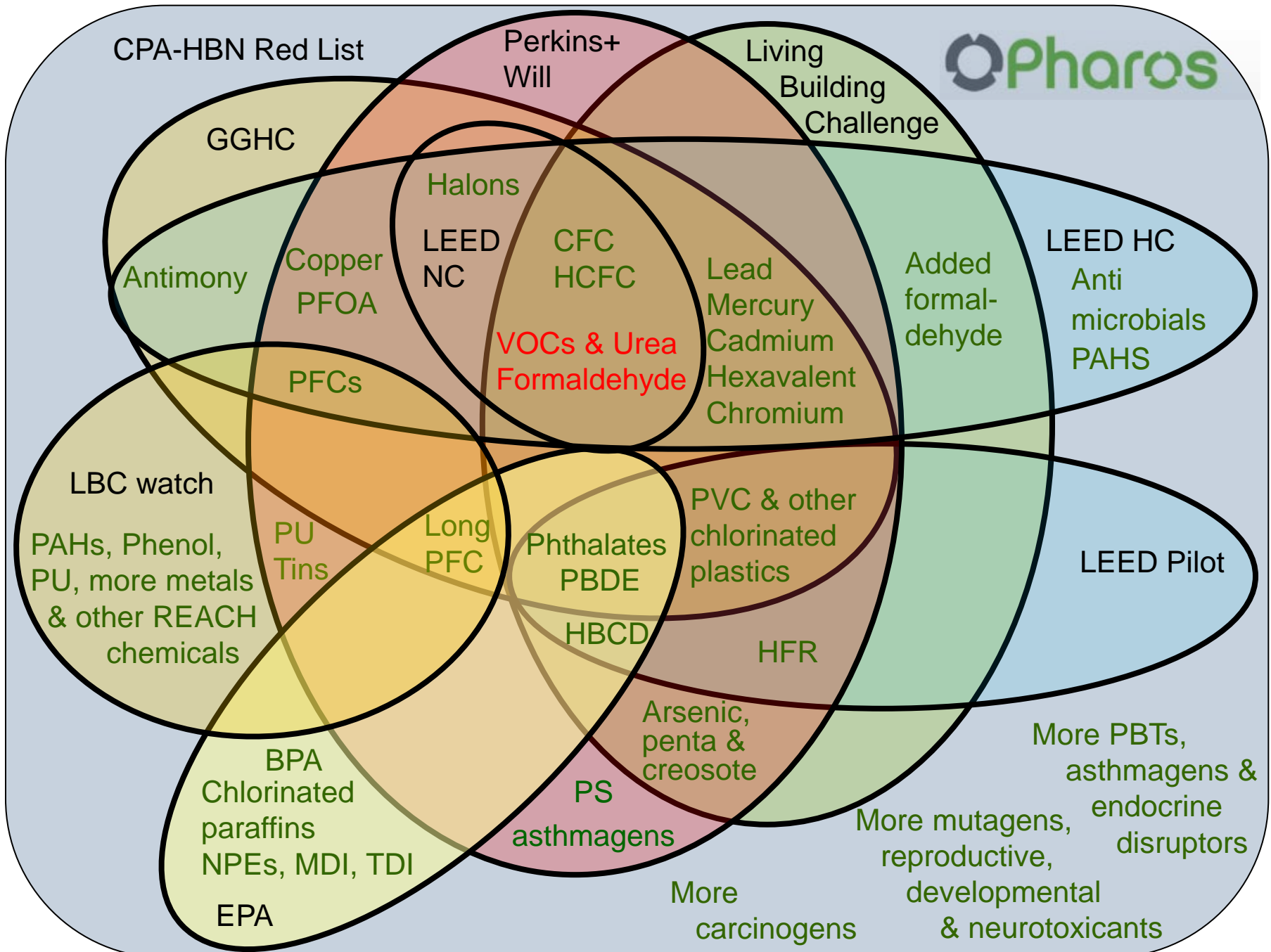


Base Camp – Identify all chemicals of high concern

Example -- Joint Roadmap towards Zero Discharge of Hazardous Chemicals (ZDHC)

- Identify and agree to **screening tool for chemical hazards**
- Establish a plan to evaluate the **chemical inventory by intrinsic hazard and establish a sector wide list of hazardous chemicals**

(adidas Group, C&A, H&M, Levi Strauss & Co., Li Ning, Nike, Puma)



High Camp – Select & Implement Safer Alternatives



Materials

Phasing out BFRs and PVC

Assessing alternative materials

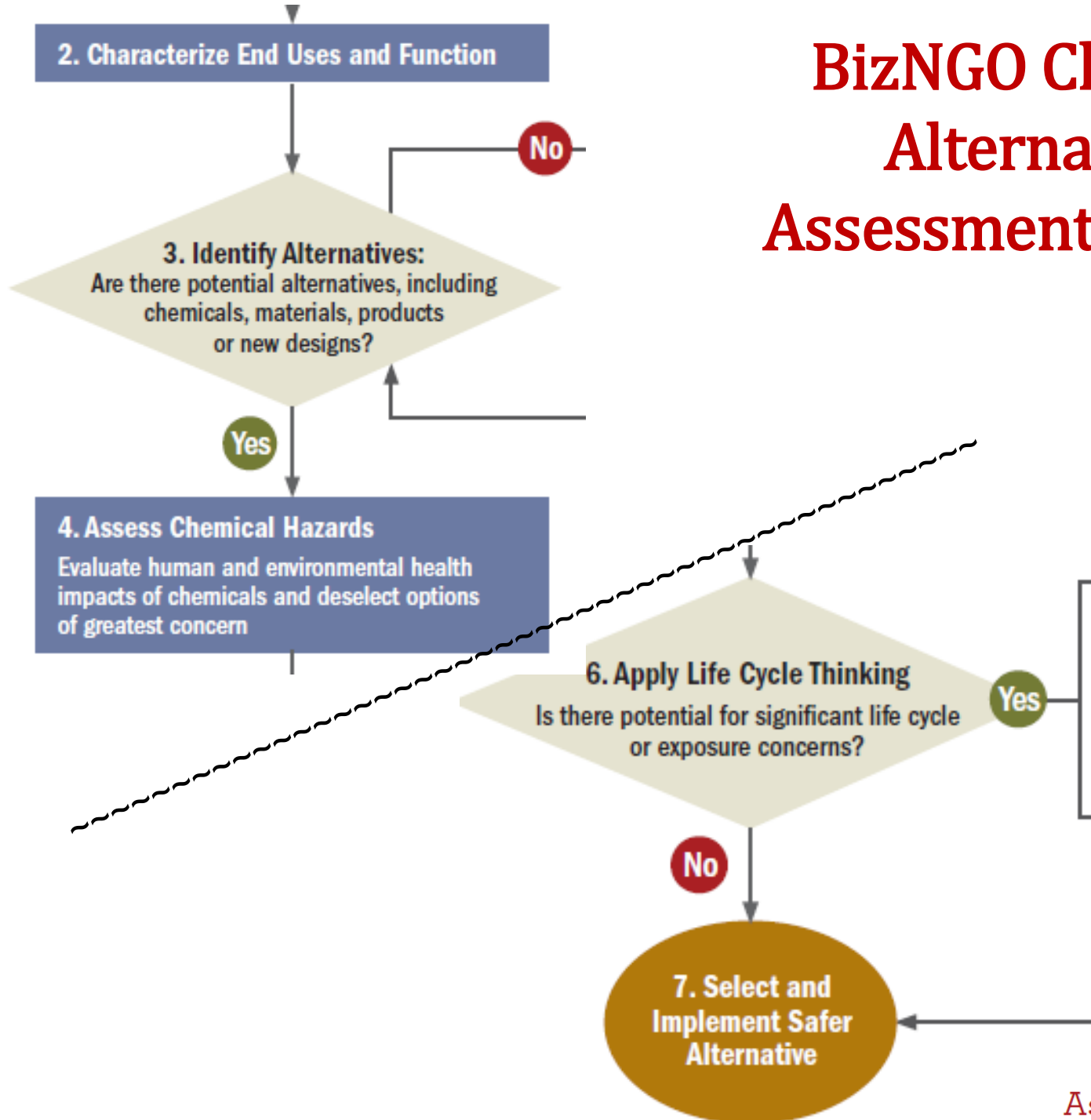
When replacing substances of concern, we seek to identify alternatives with a reduced risk of potential human health and environmental impacts that also meet our performance and cost criteria.

PRINCIPLE #2

Assess & Avoid Hazards



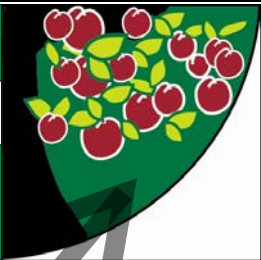
BizNGO Chemical Alternatives Assessment Protocol





Benchmark 4

Prefer – Safer Chemical



Benchmark 3

Use but Still Opportunity for Improvement



Benchmark 2

Use but Search for Safer Substitutes



Benchmark 1

Avoid – Chemical of High Concern



PRINCIPLE #2
Assess & Avoid Hazards



Summit – Specify Safer Alternatives, including green chemistries

- Nike Green Chemistry Program
 - Specify green chemistries
- HP
 - Prefer chemistries that meet highest GreenScreen Benchmark

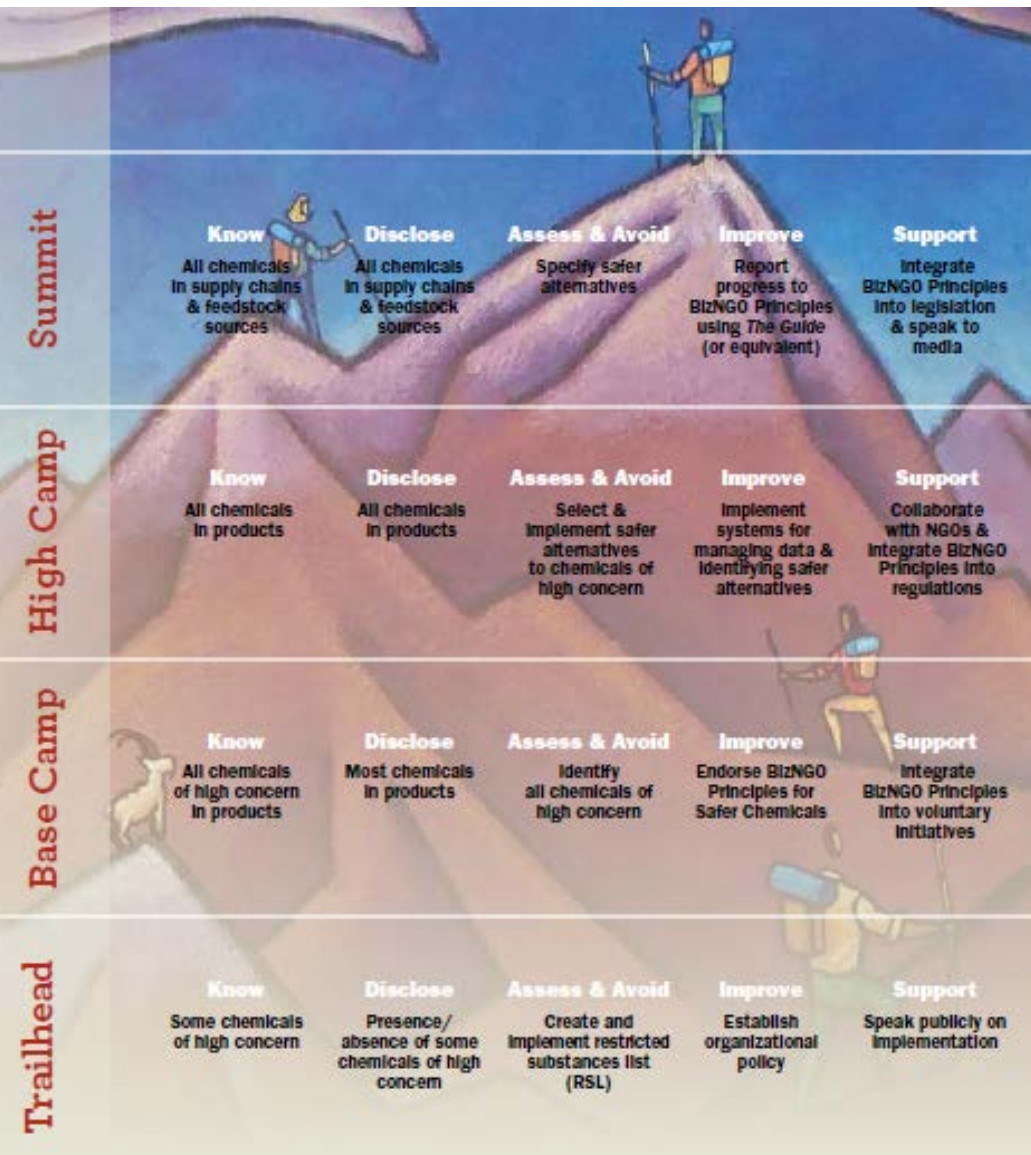


Conclusions



- Beyond Trailhead requires systems
- List of chemicals of high concern facilitates rapid screening of chemicals – best to have broad list based upon clear criteria
- Chemical hazard facilitates:
 - setting priorities
 - communicating with suppliers
 - selecting safer alternatives
- Collective voice of downstream users is critical to growing the global movement to safer alternatives

Next Steps?



- An evolving resource of business practices – let us know where your work fits in *The Guide's* benchmarks
- Use *The Guide* for comprehensive chemicals management trainings in combination with GreenScreen
- Pilot The Guide with BizNGO
- Publicly report on performance in relationship to the benchmarks
- Sector benchmarking
- Other?

Acknowledgments

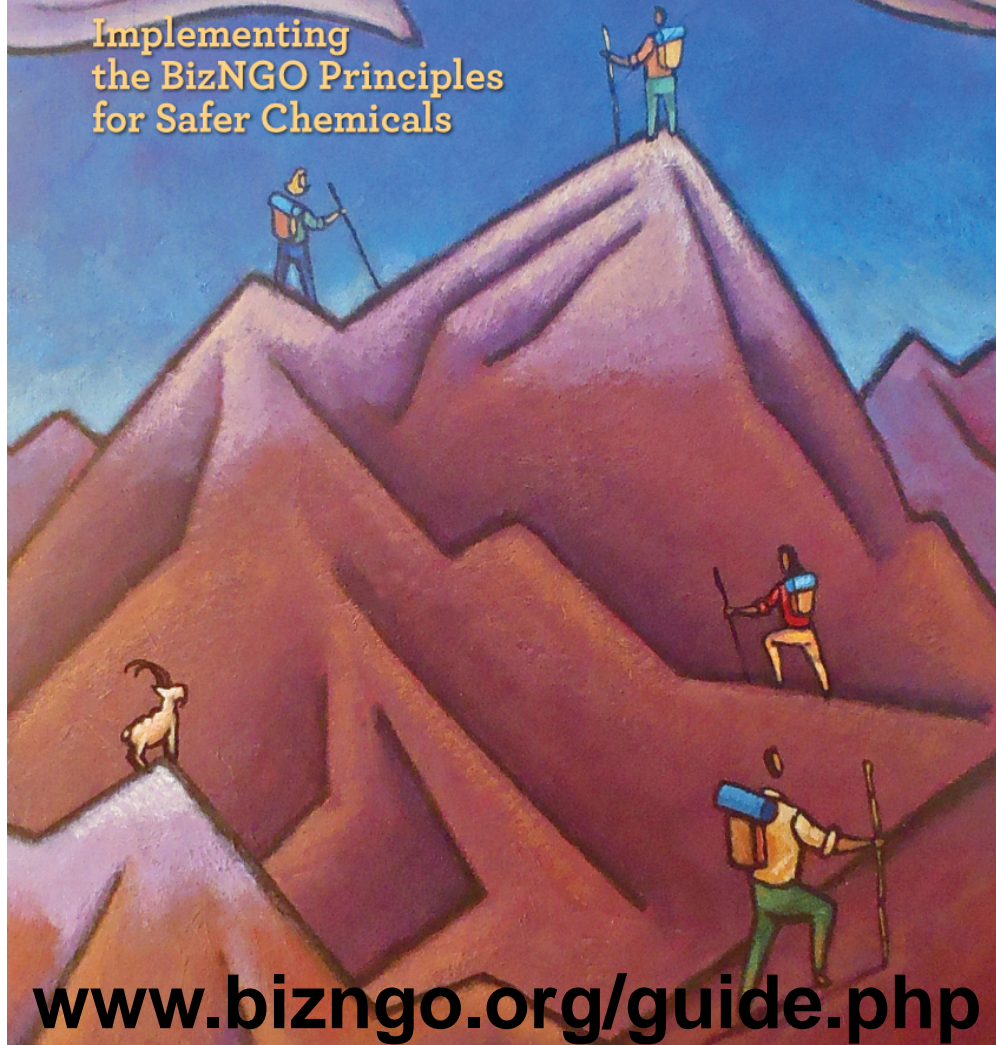


BizNGO Chemicals Work Group

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www.bizngo.org/guide.php