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Green Cleaning

5 (or 6)
steps to
green
cleaning

1. Determine how clean is clean
2. Identify the soil
3. Identify the source of soil
4. Prevent soiling
5. Clean
6. Sanitize *if necessary*

But first... a bit of background

Toxicology 101

What's the big deal?

I use that in my own bathroom!

The dose makes the poison.

**Bleaching the
bathroom
(sodium
hypochlorite)**

Household cleaning:

$$(15 \text{ min}) \times (12 \text{ mos/year}) \times 40 \text{ years} \\ = 120 \text{ hours over lifetime}$$

Workplace cleaning:

$$(5 \text{ hours}) \times (5 \text{ days/week}) \times (50 \\ \text{weeks/year}) \times 40 \text{ years} \\ = 50,000 \text{ hours} \\ \mathbf{5.7 \text{ YEARS over lifetime}}$$

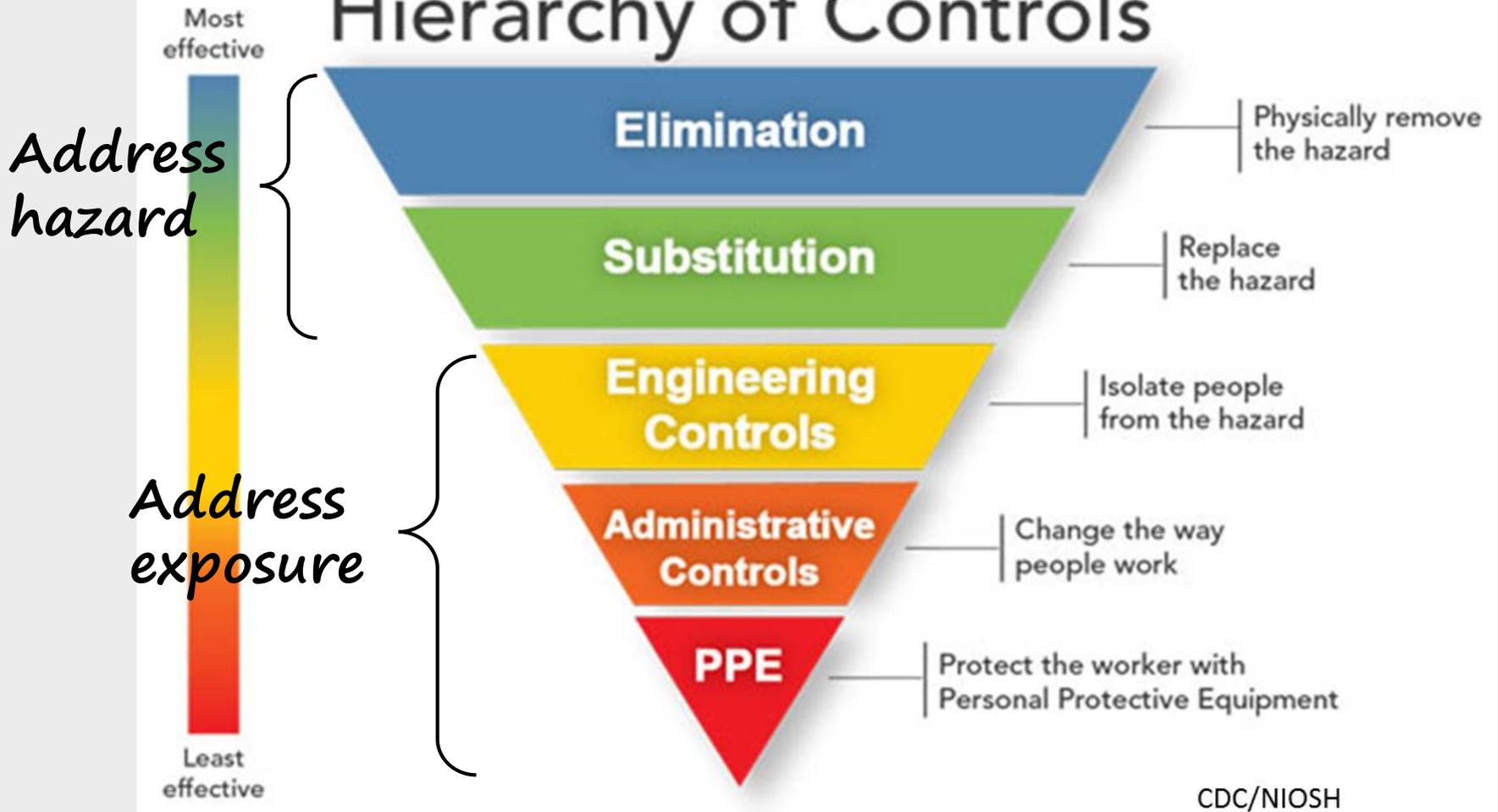
Frameworks

Our focus

$$\text{Risk} = \text{hazard} \times \text{exposure}$$

*Usual workplace safety focus
Hard to control
Never = 0
Sometimes fails*

Hierarchy of Controls



1. How clean is clean?

Know what condition you are trying to achieve.

What level of clean do you need?

Levels of clean

1. Sanitized/disinfected
2. Orderly spotlessness
3. Ordinary tidiness
4. Casual inattention
5. Moderate dinginess
6. Unkempt neglect

← *Medical, food service,
laboratory, after illness, etc.*

Most workplace cleaning

Adapted from *Custodial Staffing Guidelines for Educational Facilities*

**Don't clean
to a higher
level than
you need!**

Consider specific surfaces as well
as whole rooms/areas.

Floors
Walls
Ceilings
Work surfaces
Door knobs

2. Identify the soil

Organic matter

Oils

Dust

Mineral deposits

Rust

Urine

What about microorganisms?

Soil provides food and shelter for bacteria, fungi, and viruses.

Keep surfaces clean and control moisture to reduce microorganism numbers.

3. Identify the source of soil

Tracked-in
Airborne
Spills
Process

4. Prevent soiling

Target interventions at soil entry points to reduce the cleaning load:

Entryways: walk-off grates, mats

HVAC: filters

Spills: SOPs, engineering controls

Process: process improvement, efficiency

5. Clean

Use dry cleanup methods first to
remove larger soils

Vacuum
Microfiber dust cloths
Squeegees

Use the right cleaner

Have an acid and alkaline cleaner to use for opposite pH soils

Use a cleaner certified as “green” by a 3rd party



epa.gov/saferchoice

Safer Choice Label



Know your environment.
Protect your health.

ewg



Follow the directions

Use the right amount.

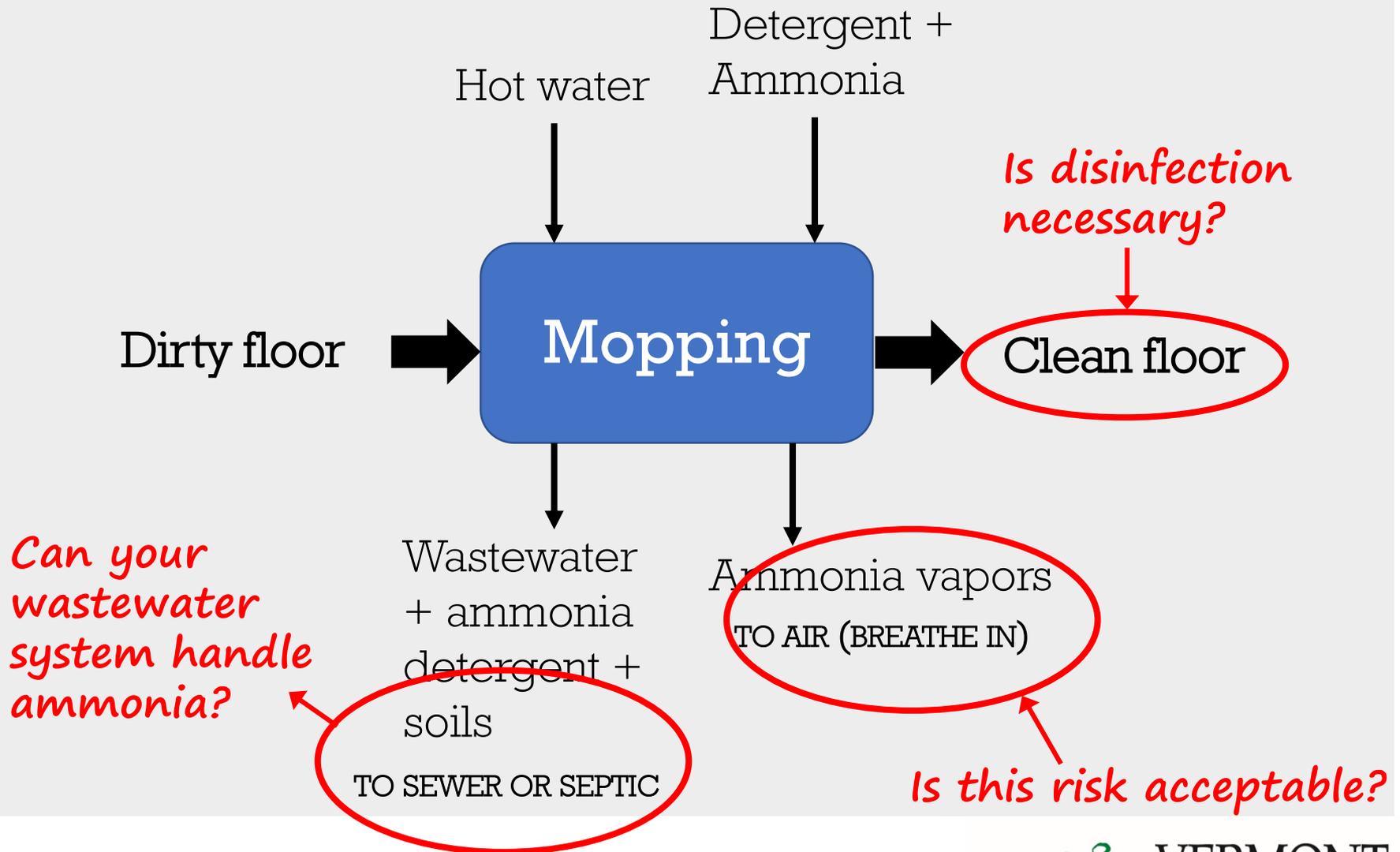
Follow the application method described.

Most sanitizers and disinfectants require specific residence time.

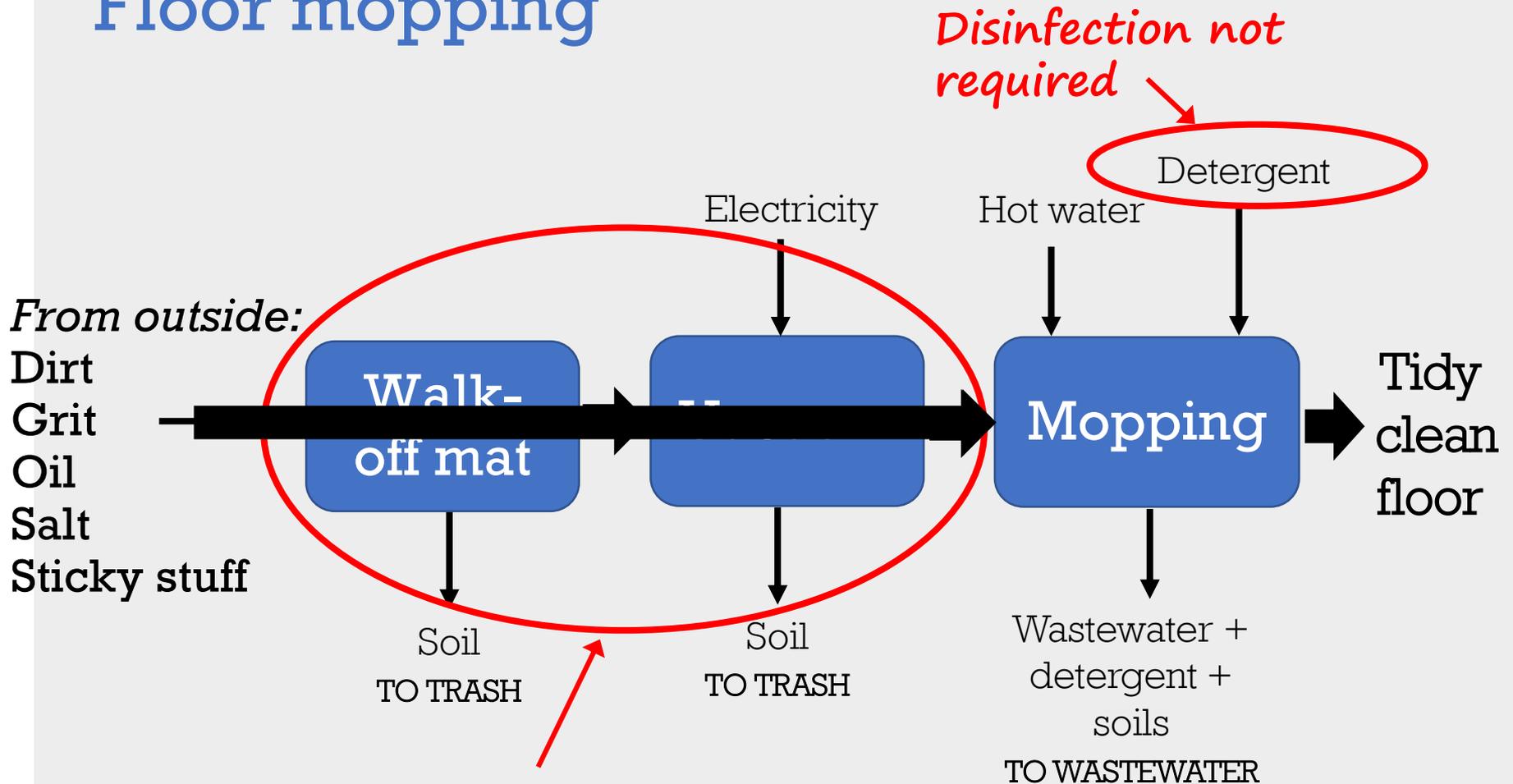
**6.
Disinfect/
Sanitize
if necessary**

Disinfect and sanitize surfaces only after they have already been cleaned

Process map: floor cleaning



Floor mopping



Doing these reduces the amount of cleaner & frequency of mopping required

Thank you!

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Product Name	Company	Sector	Type
Simple Green Industrial Cleaner and Degreaser	Sunshine Makers, Inc.	Business	All-Purpose Cleaners
Simple Green Industrial Cleaner and Degreaser - Lemon Scent	Sunshine Makers, Inc.	Business	All-Purpose Cleaners
Simple Green All Purpose Cleaner and Degreaser	Sunshine Makers, Inc.	Home	All-Purpose Cleaners
Simple Green All Purpose Cleaner and Degreaser - Lemon Scent	Sunshine Makers, Inc.	Home	All-Purpose Cleaners
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	Simple Green Stone Wipes [DISCONTINUED] Product Category: <u>Countertop Cleaner</u>	Cleaner D
	Simple Green All-Purpose Cleaner, Lemon Product Category: <u>General Purpose Cleaner</u>	Cleaner F
	Simple Green Concentrated All-Purpose Cleaner Product Category: <u>General Purpose Cleaner</u>	Cleaner F
	Simple Green d Pro 3 One-Step Germicidal Cleaner & Deodorant Product Category: <u>Disinfectant</u>	Cleaner F
	Simple Green Heavy-Duty Cleaner and Degreaser-Pressure Washer Concentrate Product Category: <u>Degreaser</u>	Cleaner F
	Simple Green Lime Scale Remover Product Category: <u>Hard Water Stain Remover</u>	Cleaner F
	Simple Green Naturals Dish Washing Liquid [DISCONTINUED] Product Category: <u>Hand Washing Detergent</u>	Cleaner F
	Simple Green Pro HD Heavy-Duty Cleaner	Cleaner