

Myles Staples Portfolio



Kelp
Kast

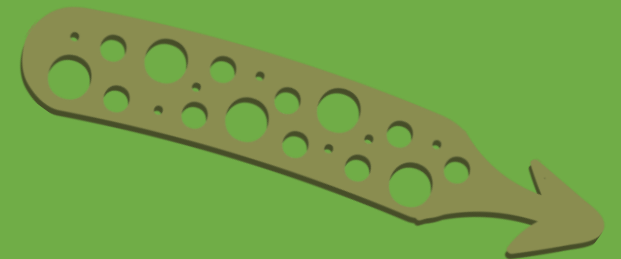
J.O.B.

Sam

Kelp Kast

A circular approach to medical waste

198.357 Industrial Design Studio IIIa
Massey University of Wellington, NZ



Design brief

Innovate products, procedures, and services for **healthcare in hospitals** leading to **better patient** and **stakeholder** experiences.



Outcomes

To understand

- context of interaction (journey mapping)
- human factors (user experience)
- sensory experience and analysis (pain points)

To develop

- quality **design research collateral** (to further development)

Yun's Journey

Yun **breaks their arm** skiing and has to go to the **doctors for x-rays and cast**. Once the cast has been set, it's up to them to figure out how to **navigate their daily routine** as they are living alone

Expectations:

- Wearing a cast **2-3 month**
- Must **perform daily tasks** with minimal assistance
- Return to the doctor for **treatment**



Opportunity

There is an opportunity to give patients a better experience while they recover from a broken bone.



Salient features



DURABLE



**LIGHT
WEIGHT**



BREATHABLE



**WATER
RESISTANT**



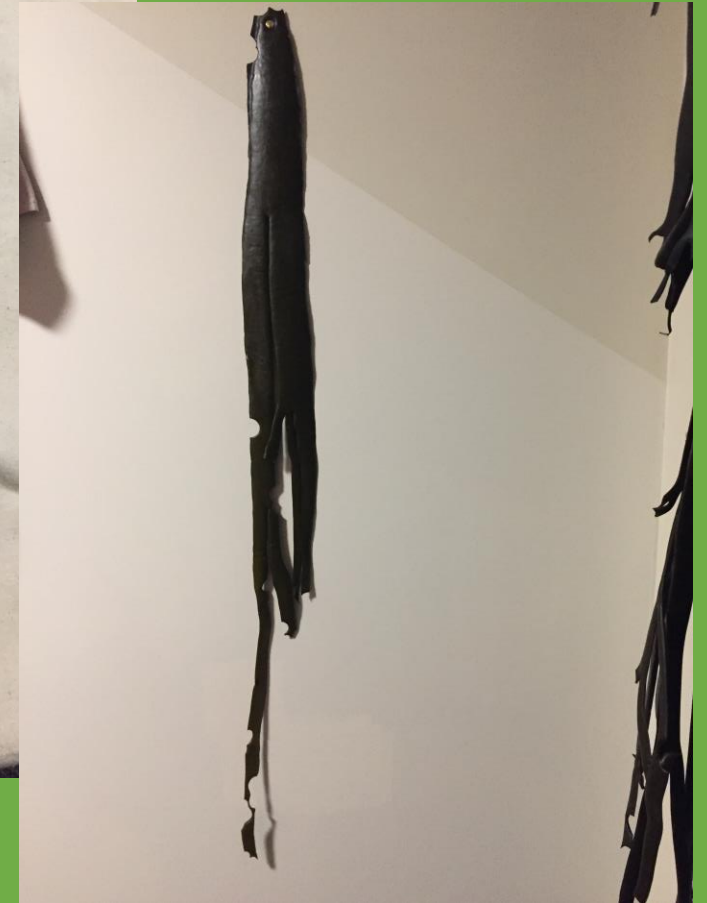
BIODEGRADABLE

Research... or long walks on the beach?

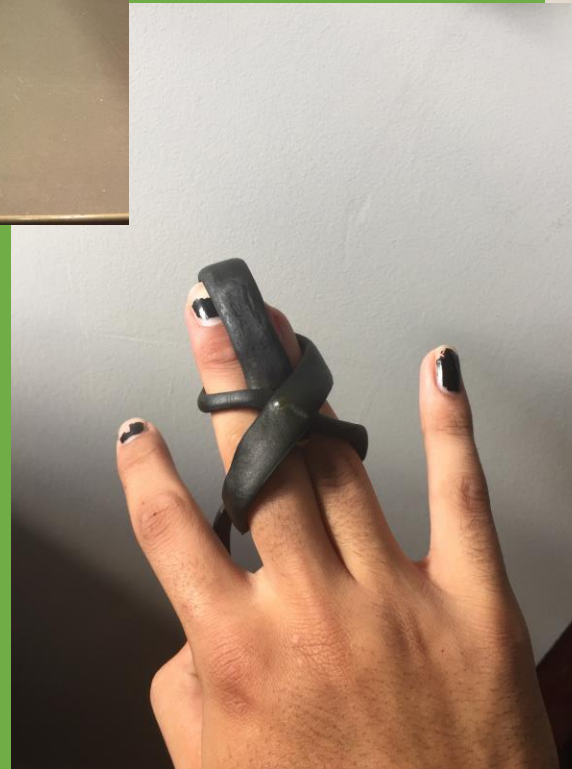
(There's a fun story here, feel free to ask)



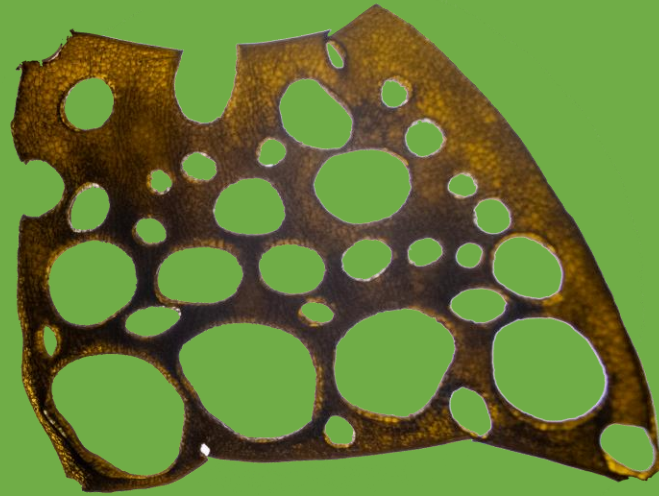
3.8 billion years of R&D



Refined selection



Material manipulation / DFM



Product life cycle

HARVEST

Kelp farmers sustainably harvest kelp based on NIWA** recommendation.

COMPOST

Use cow manure to fertilize other soil & crops

FEED

Used Kelp Kast is sterilized and turned into cow feed to diversify their diets.



MANUFACTURE

Kelp is brought to manufacturing plant for dye cutting to prepare for distribution.

DISTRIBUTION

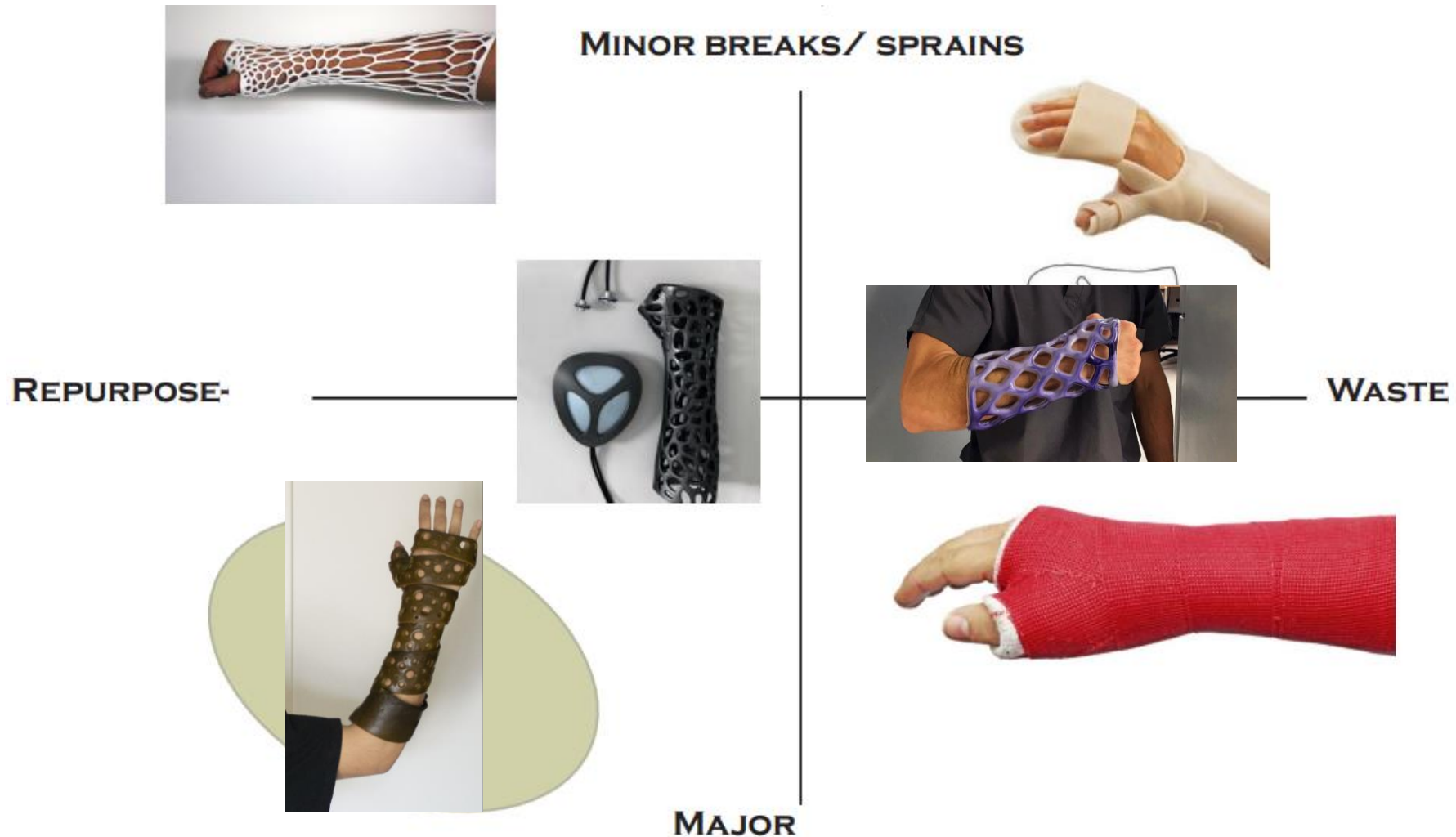
Patient breaks bone and doctor applies Kelp Kast to wounded area. kast dries, patient goes home.

REPURPOSE

Patient is healed and returns to doctor for kast removal. Recycled in designated bins.

**NIWA is the [National Institute of Water and Atmospheric Research](#)

Ecological consequences to injury severity

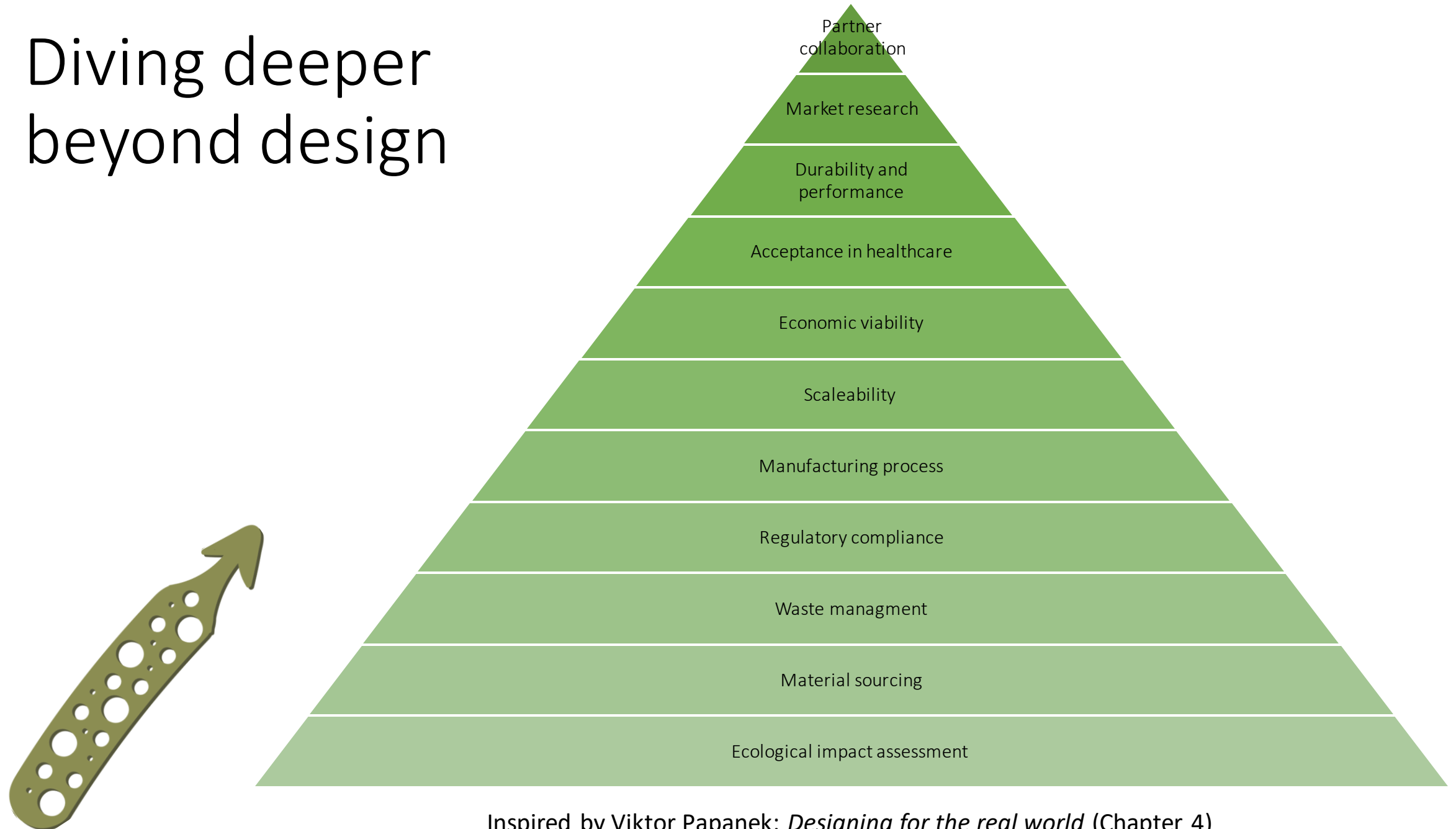


Ecological consequences to patient experiences



****End of life potential** can be defined as the likelihood a product can and will be broken down into individual components or raw elements through conventional technology in order to maintain integrity throughout its dedicated life cycle system (i.e [biological and technical systems](#))

Diving deeper beyond design



Inspired by Viktor Papanek: *Designing for the real world* (Chapter 4)





J.O.B.

CLASSIFIED

Mission Brief

Who: [Company]

What: Product designer

Where: Onsite/Remote

When: ASAP

Why: To develop intuitively distinct
and purposeful designs

Content

User Research

User
Requirements

Information
Architecture /
Wireframing

Prototyping &
Interaction
Design

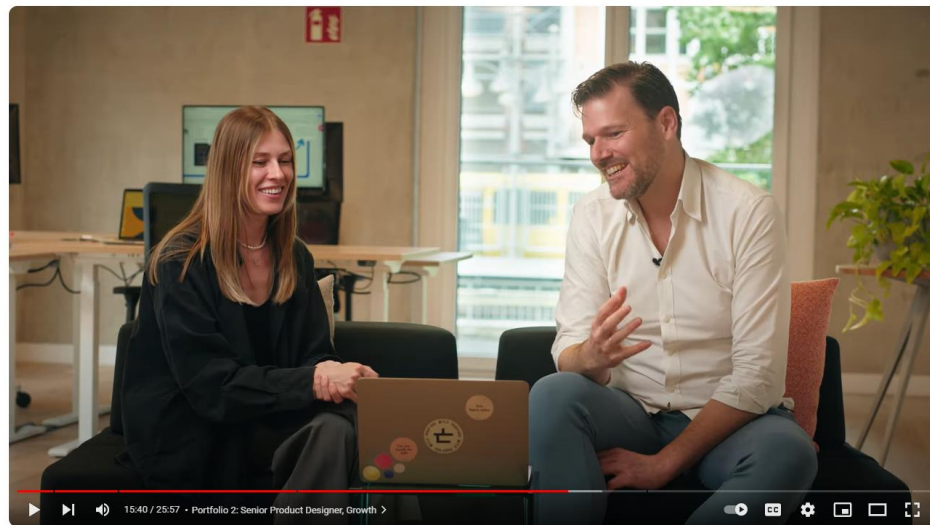
Visual Design on
UI elements

Usability &
Iteration

Development &
Implementation

User Research

- YouTube Interviews
- Design Forum Research
- Conversations with UI/UX designers

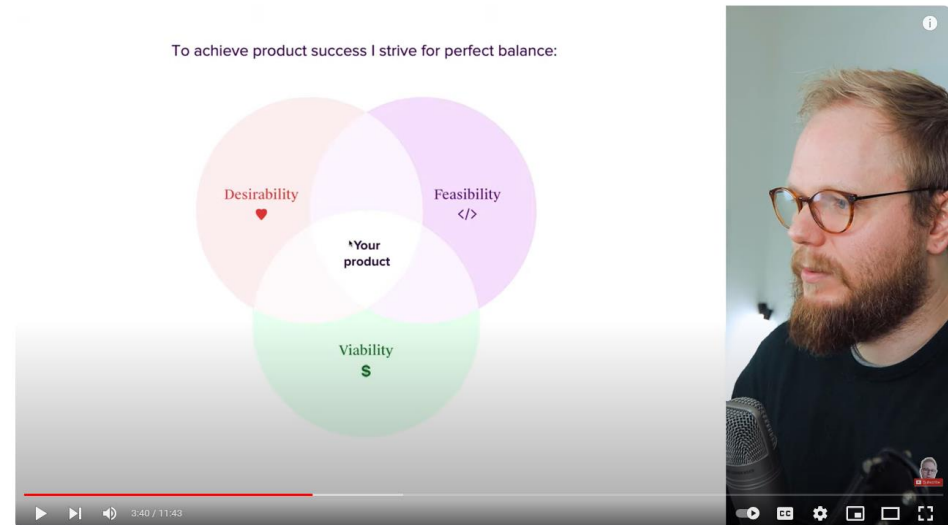


Product Designer Portfolio Reviews: Tips from a Miro Recruiter and Head of Design

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Paul

Technical Recruiter



Needs

- Accessibility (easy to click through)
- A good experience

Wants

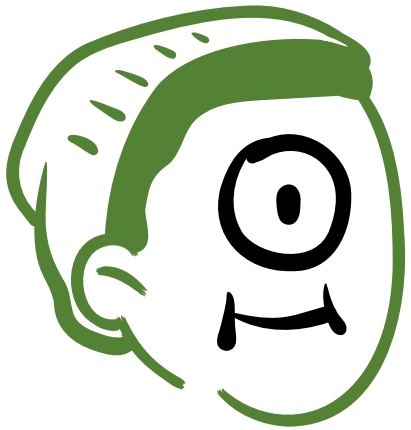
- Soft Skills
- A surprise

Expectations

- Playful Interaction
- Overview of case studies

Charles

UX designer



Needs

- Someone they can work with
- Proof of work

Wants

- Soft skills
- Technical Skills

Expectations

- No grammar/typo issues
- Overview of case studies

SWOT analysis

Strengths

- Industrial Design background
- Bilingual
- Soft skills
- Passion for circularity

Weaknesses

- Lack of relevant UI/UX experience
- Lack of relevant case studies
- Minimal knowledge of HTML and CSS

Opportunities

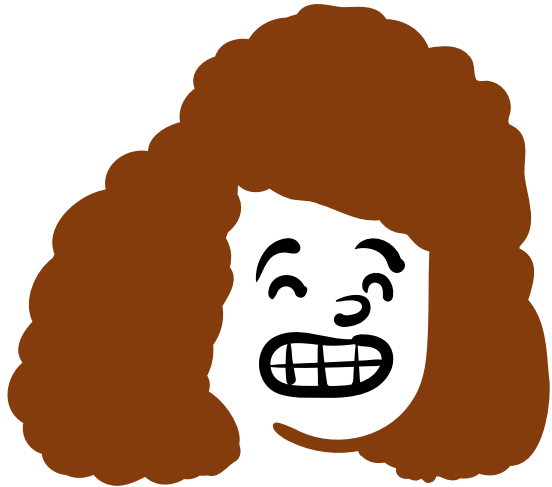
- Increase in job postings
- Networking
- Update current case studies
- Learn new skills

Threats

- Shift in industry standards (WCAG, etc.)
- Saturated job market
- Economy health
- State of the world

Courtney

Head of Design



Needs

- Evidence of design skills

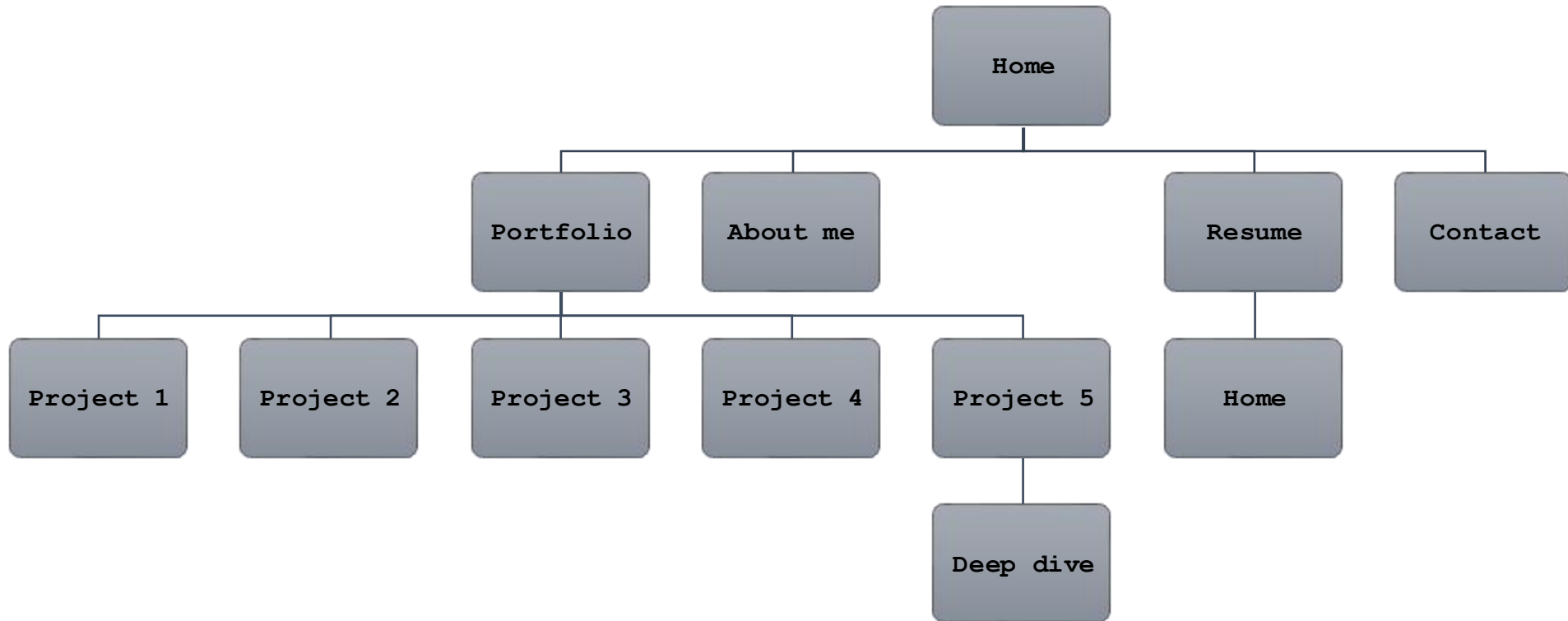
Wants

- Good UI/UX
- Use of interaction

Expectations

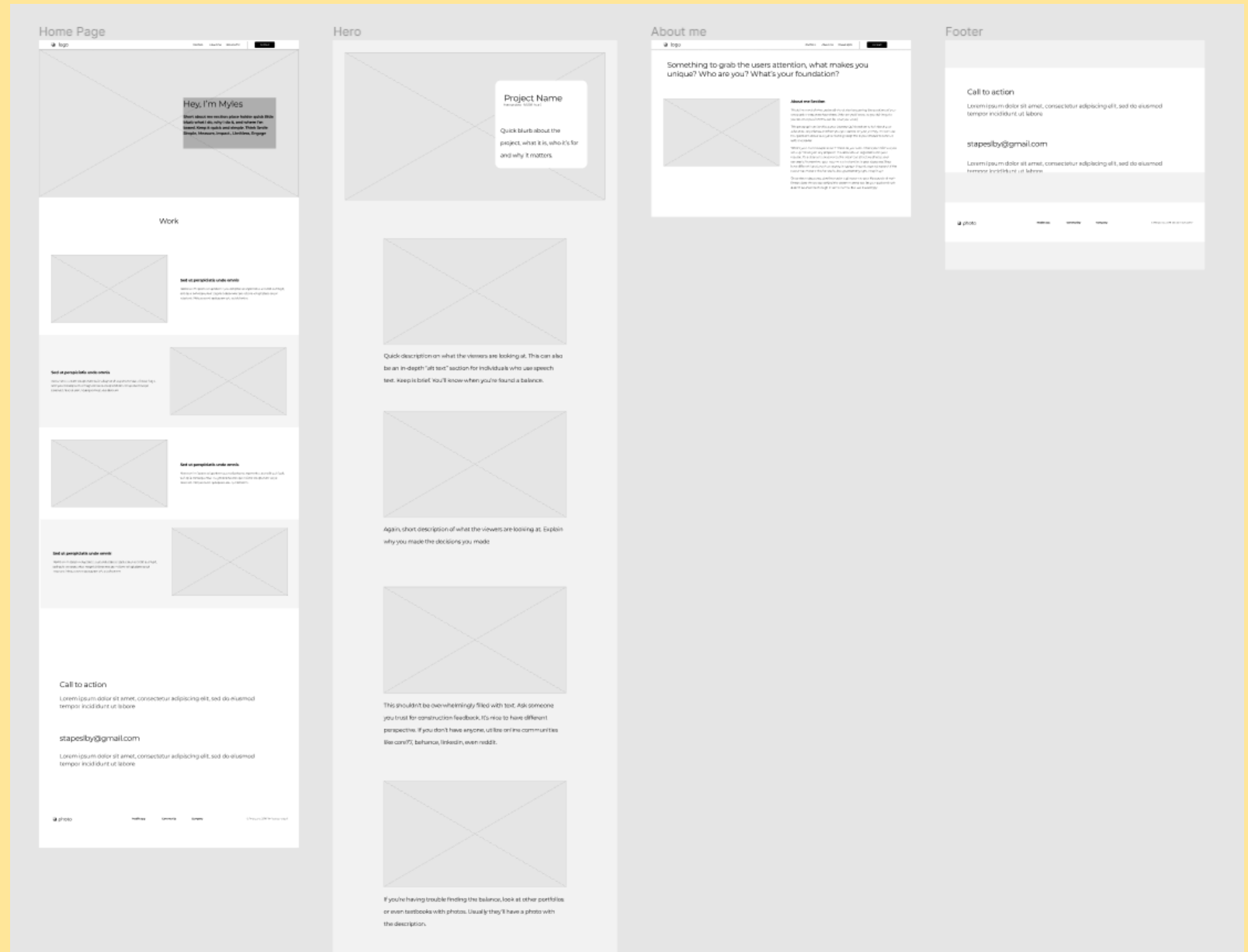
- Relevant experience
- Efficiency
- Accurate grammar and spelling

Intel Architecture



Wireframe

Here we have
the main pages of
the website to
show basic
wireframing
skills



Visual Design / UI elements

Key assets: personal photography, logo, projects



[Portfolio](#)[About Me](#)[Resume/CV](#)[CONTACT ME](#)

Come back soon!

Thanks for taking the time to look through my portfolio. Click on this box to be redirected back to my website. Cheers :)

SAM

Seamless air mask

4-week Individual project

INDD 301 Industrial Design Studio



Overview

Brief

Design a piece of protective equipment inspired by nature

Problem

Asphalt workers all over the world are exposed to unhealthy work conditions including **extreme heat and toxic fumes**

Opportunity

There is an opportunity to design a piece of **protective equipment** for **asphalt workers**

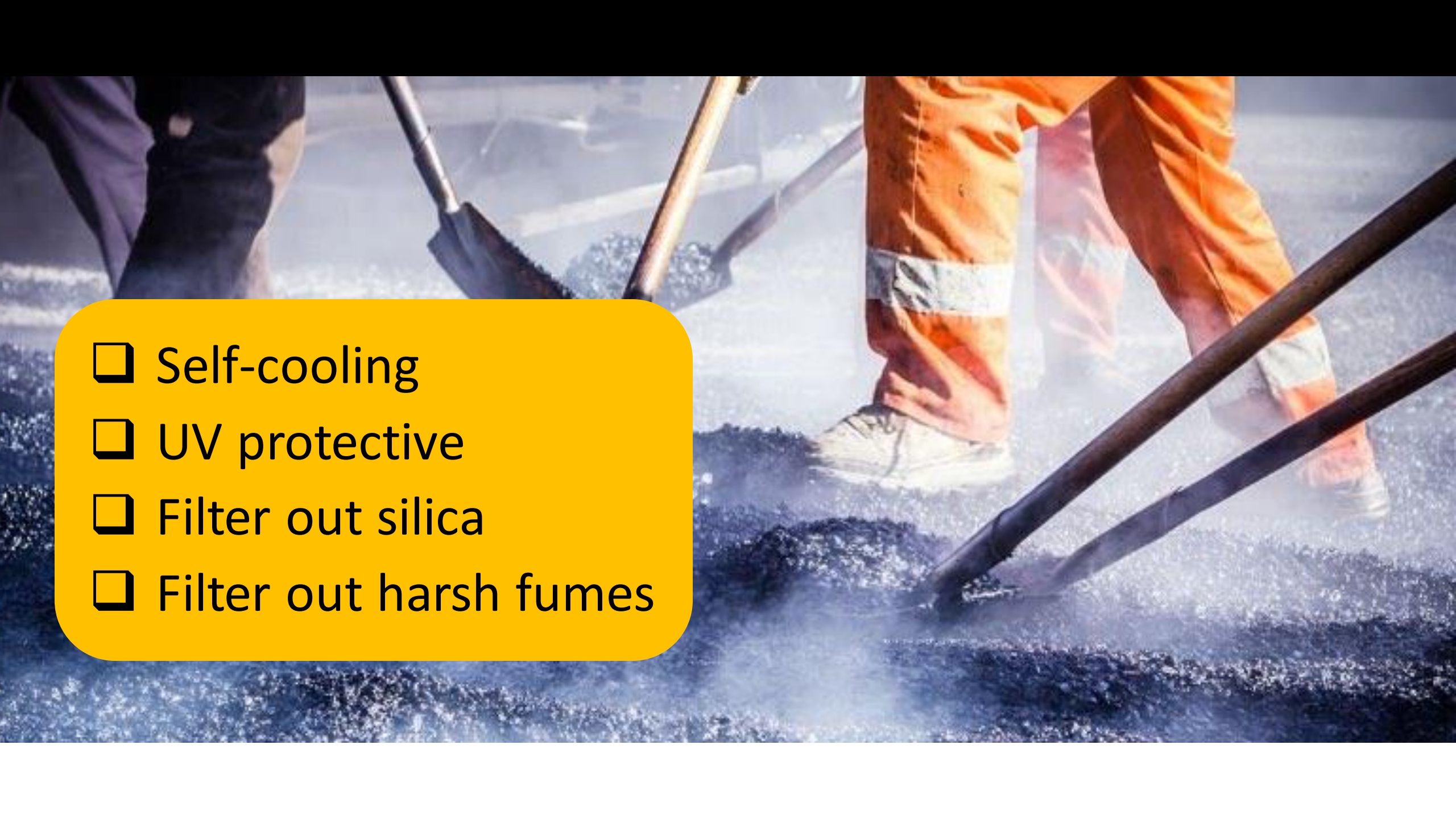




2:5 say respirators are uncomfortable

1:2 don't wear masks

1:4 experienced internal and external irritation

- 
- A photograph showing the lower legs and feet of construction workers in orange safety pants and black boots, working on a road surface. They are using long-handled shovels to move dark, granular material, likely asphalt or gravel. A thick, white cloud of dust or steam rises from the ground, partially obscuring the workers and the background. The scene is brightly lit, suggesting a sunny day.
- ☐ Self-cooling
 - ☐ UV protective
 - ☐ Filter out silica
 - ☐ Filter out harsh fumes

Research: Asknature.org



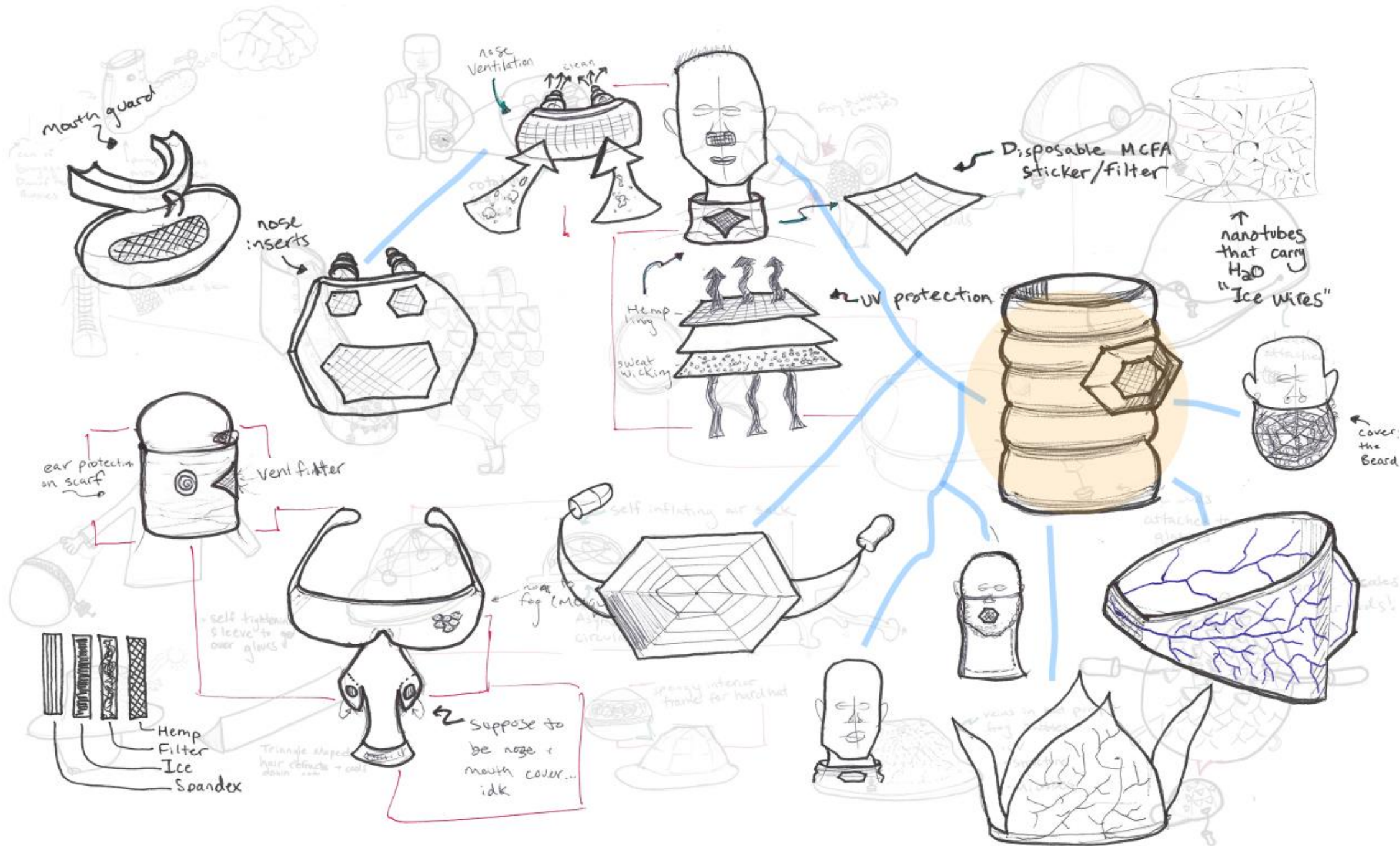
Trees

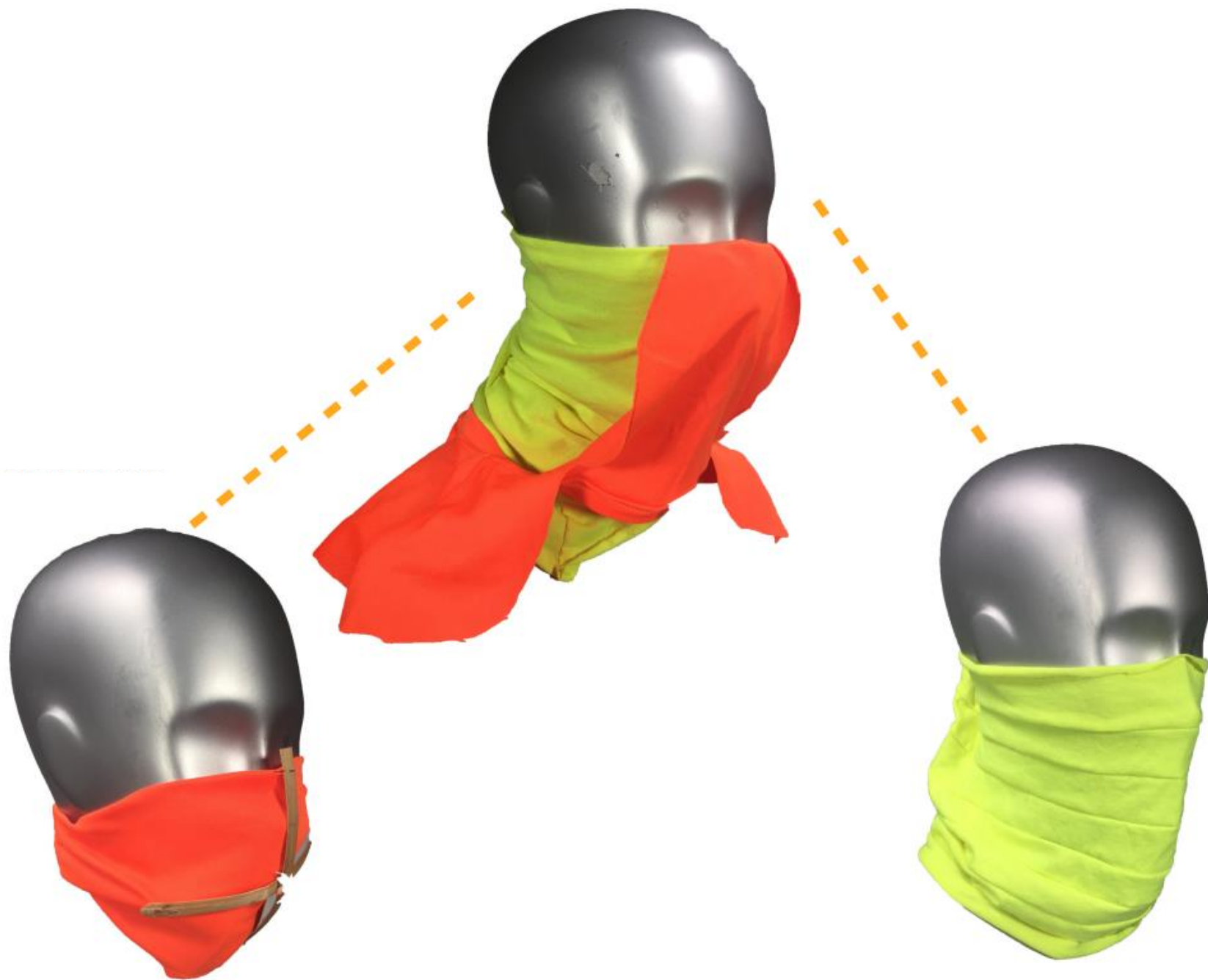
- "Tree species with rough, dense foliage and light colored leaves provide the greatest cooling benefits to their surroundings."
 - [Leaf Color and Shape Enhance Cooling Effect — Biological Strategy — AskNature](#)



Bees

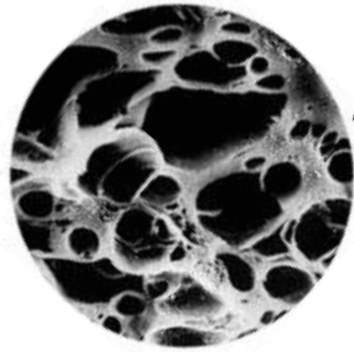
- "Honeybees cool the hive by collecting water, spreading it, and fanning to increase evaporation."
 - [Water Collection Cools Hive — Biological Strategy — AskNature](#)



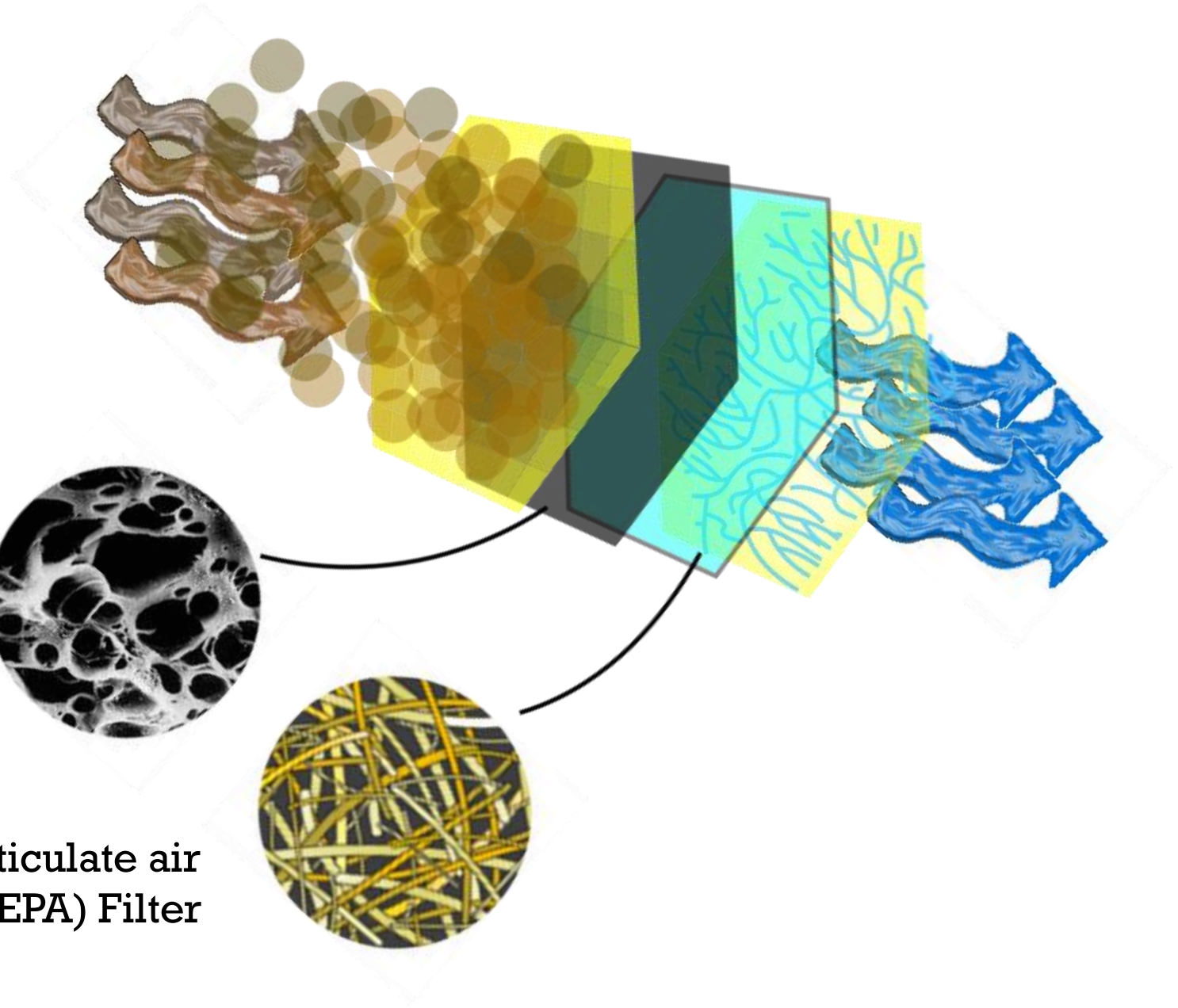
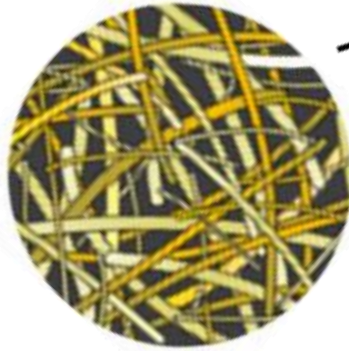




Carbon Filter



High efficiency particulate air
(HEPA) Filter





SELF-COOLING



UV PROTECTED



FILTER OUT SILICA



FILTER OUT HARSH FUMES



FRESH SEAMLESS BREATH





Thank you