

# The Intersection of Artificial Intelligence, Interior Design, and the Regulatory Landscape

The background features a gradient from purple at the top to blue at the bottom. A white grid pattern is overlaid on the image, with the grid lines curving and warping across the frame. The text is centered in a white, sans-serif font.

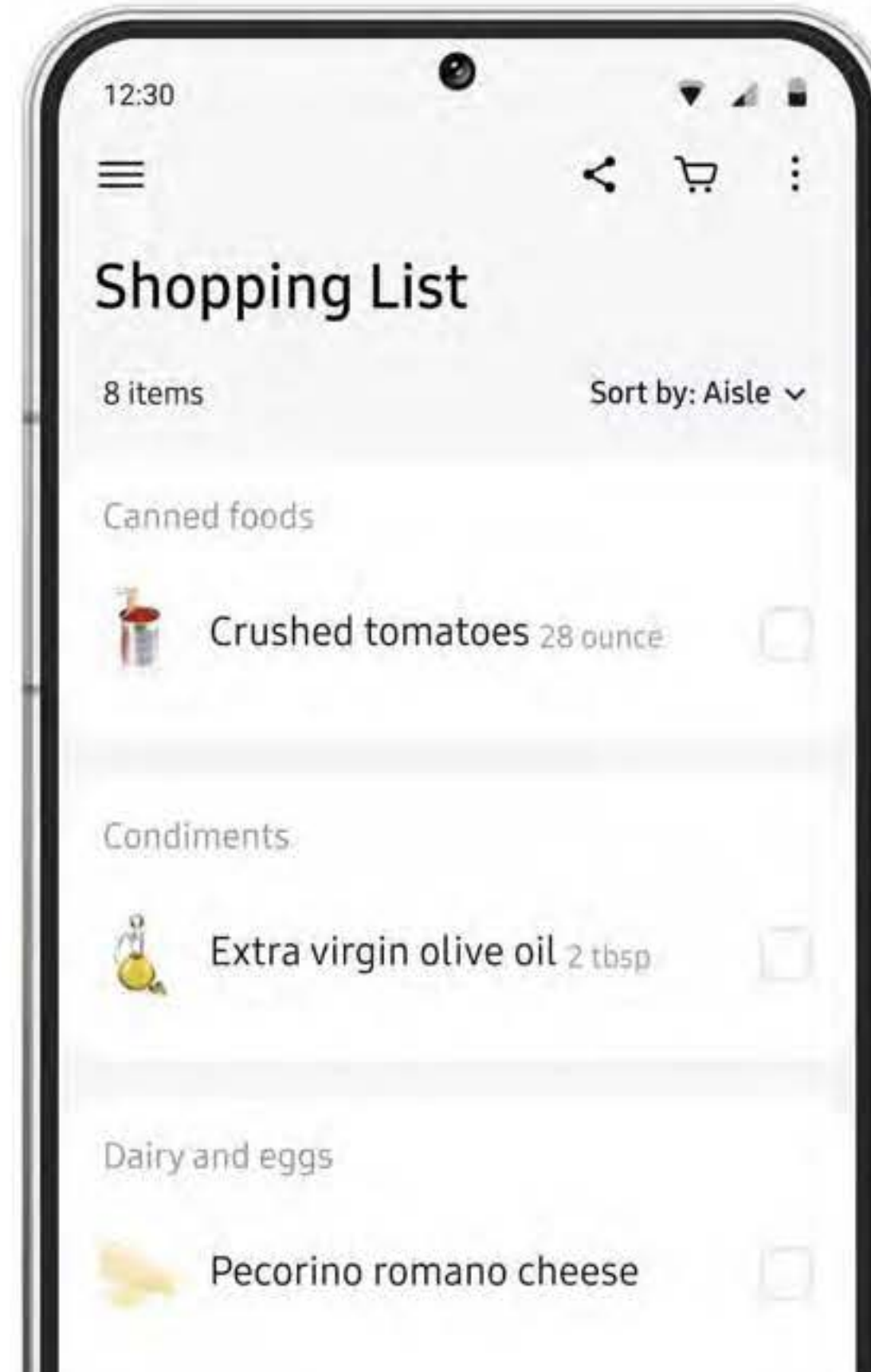
# Running & Tom Hanks



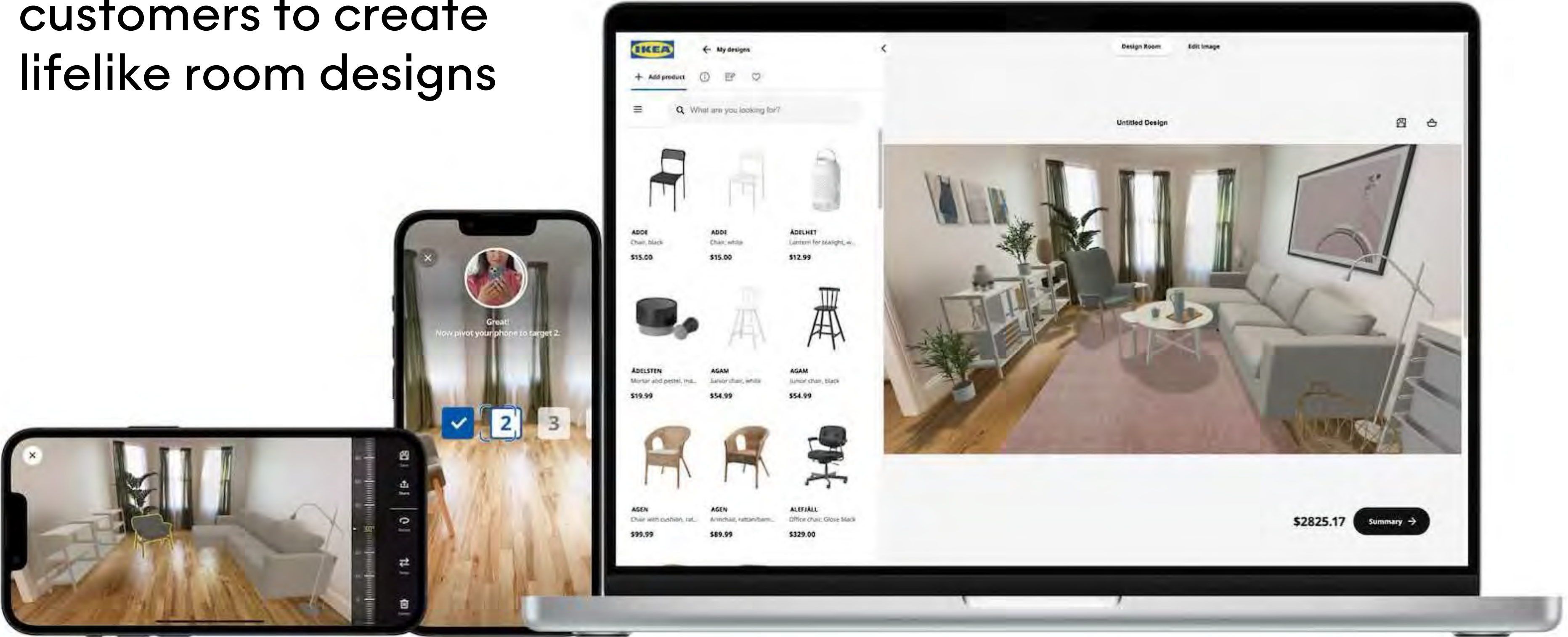
# Intuitive Grocery List App

Make shopping more enjoyable with simplified grocery lists.

Sign Up



# IKEA launches new AI-powered, digital experience empowering customers to create lifelike room designs



The background features a gradient from purple at the top to blue at the bottom. A faint, white grid pattern is overlaid on the image, creating a sense of depth and structure. The text is centered horizontally and vertically.

No More Decisions



**BEWARE!!**

**There's a video out there promoting some dental plan with an AI version of me. I have nothing to do with it.**

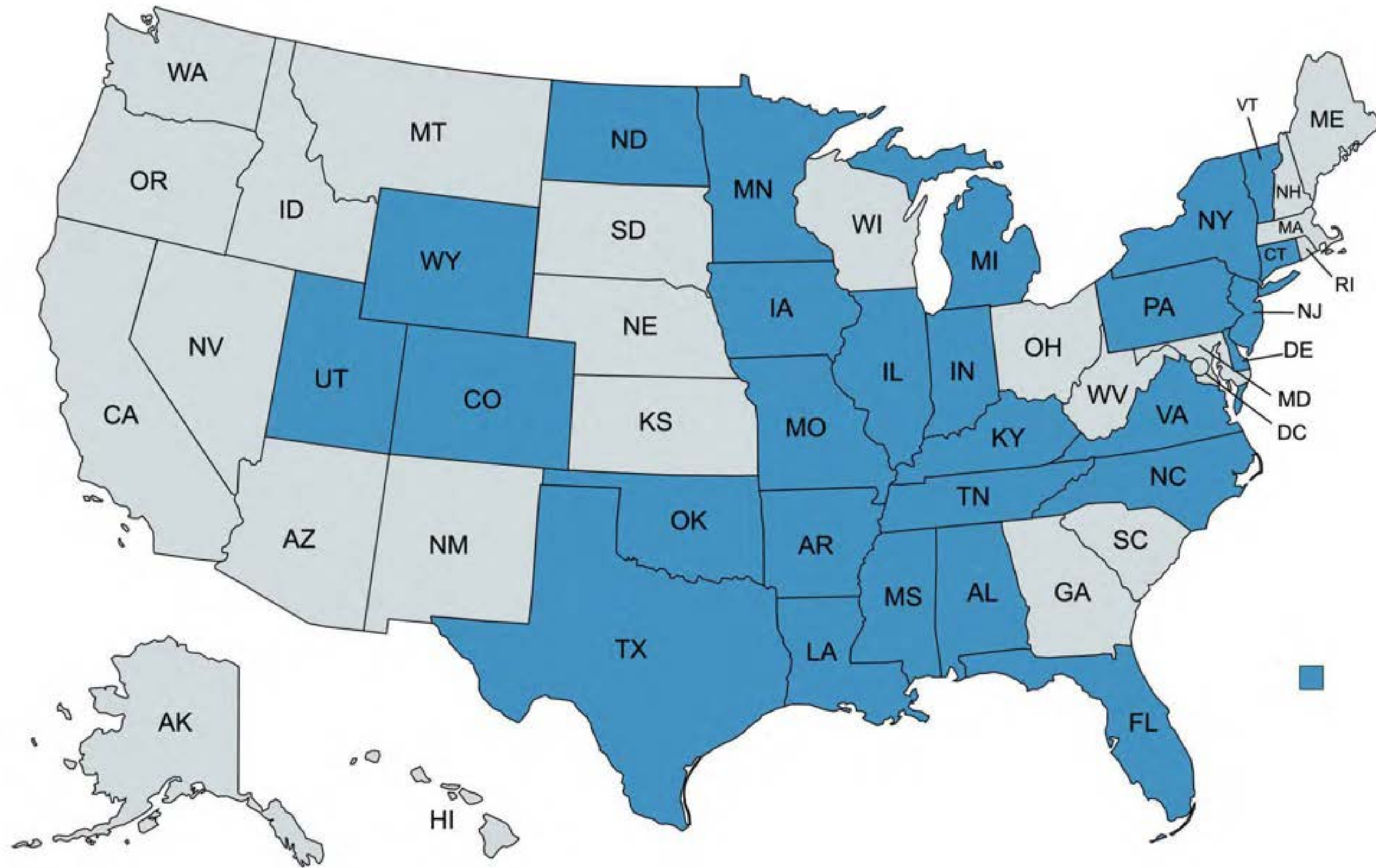
**-Tom Hanks**

This is terrifying.



The background features a gradient from purple at the top to blue at the bottom. A faint, white grid pattern is overlaid on the image, creating a sense of depth and digital structure.

Digital verification.



What does that  
mean for licenses  
and certificates?

Another layer of  
fractured practices?

There is a lot of  
uncertainty right  
now in the design  
industry.



**ChatGPT**







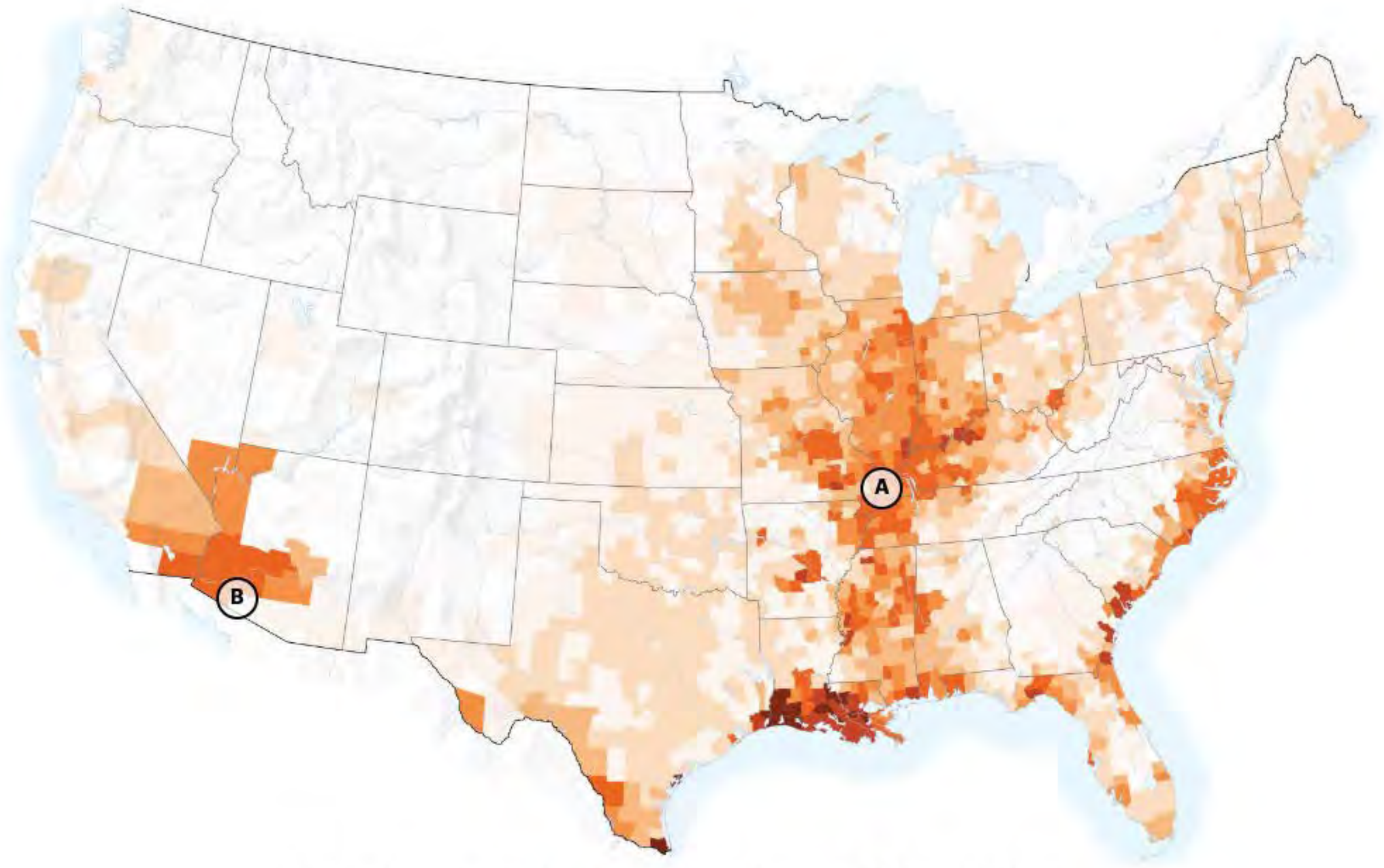
## Monthly 12-month inflation rate in the United States from July 2020 to July 2023



Source  
Bureau of Labor Statistics  
© Statista 2023

Additional Information:  
United States: July 2020 to July 2023

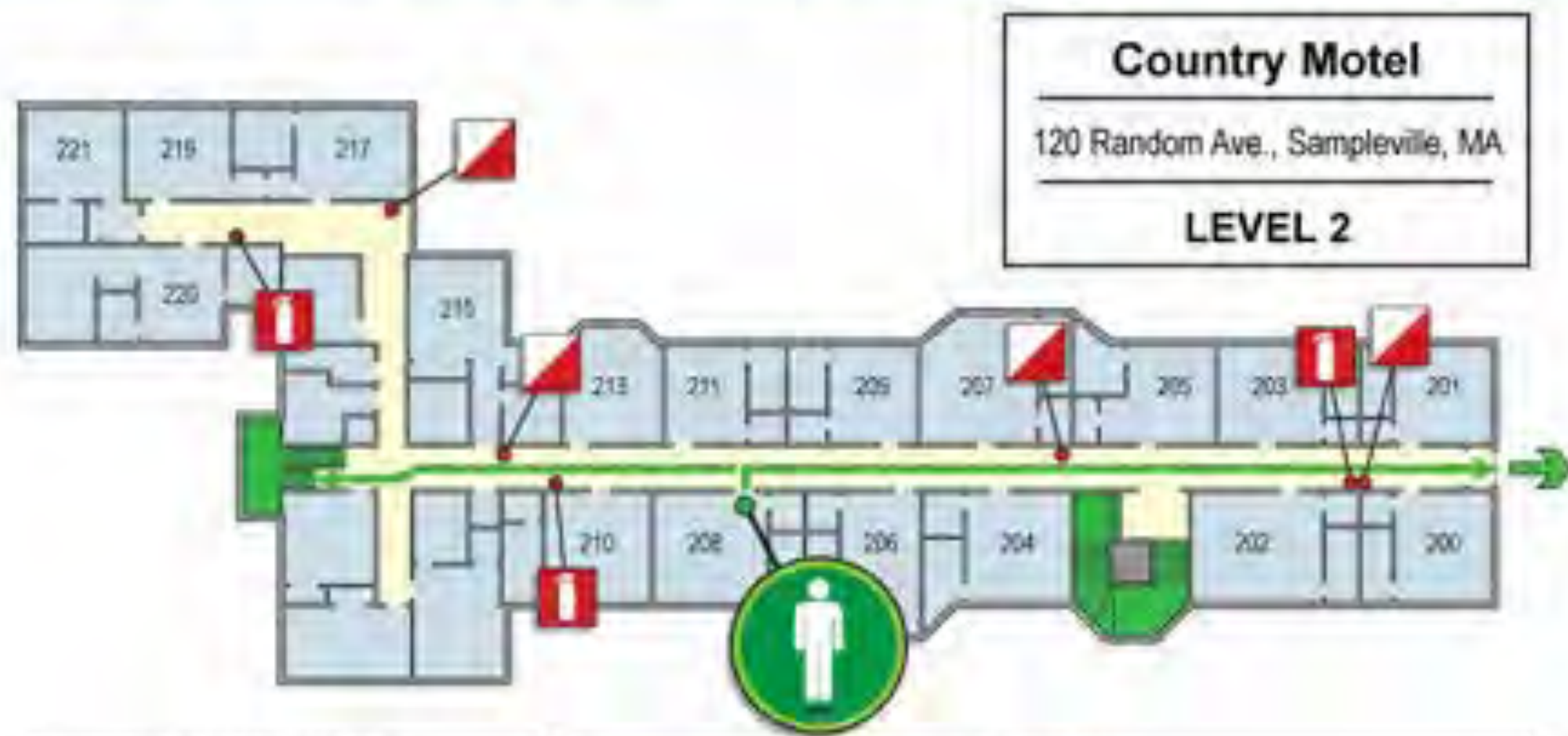




By midcentury, heat and humidity in Missouri **(A)** will feel like Louisiana does today, while some areas we don't usually think of as humid, like southwestern Arizona **(B)**, will see soaring wet bulb temperatures because of factors like sun angle, wind speed and cloud cover reacting to high temperatures, according to Hannah Hess of the Rhodium Group.

Life safety may  
change.





# EVACUATION PLAN



## IN CASE OF FIRE

1. Activate fire alarm.
2. Evacuate the building.

## LEGEND

- |   |                  |   |                         |
|---|------------------|---|-------------------------|
|  | You Are Here     |  | Fire Extinguisher       |
|  | Emergency Exit   |  | Fire Alarm Pull Station |
|  | Evacuation Route |   |                         |

Human longevity  
hits 120.

Designers are going  
to enable life in new  
ways.

**YOU**

have the power.



**I HAVE THE POWER**



The background features a gradient from purple at the top to blue at the bottom. A faint, white grid pattern is visible, particularly in the lower-left corner. The text is centered and rendered in a clean, white, sans-serif font.

Thinking ahead is  
strange.

**YOU**

have the power.

# 3 QUICK THINGS

1. **Designer, Futurist, & Senior Foresight Manager at Future Today Institute.**
2. **Understand where the design industry is heading due to AI.**
3. **Logistics**





RESTROOM RESTROOM

RESTROOM PLAN  
 SCALE: 1/8" = 1'-0" [1:100]  
 532 SQ. FT. [532 m<sup>2</sup>]

SQUARE METERS  
 AUDIBLE/VISIBLE FIRE ALARM  
 FIRE EXTINGUISHER  
 SMOKE DETECTOR  
 WALL MOUNTED EMERGENCY LIGHT  
 W/ BATTERY BACK-UP  
 CEILING MOUNTED EXIT SIGN  
 ILLUMINATED SURFACE  
 DIRECTION OF ARROW  
 WALL MOUNTED EXIT SIGN  
 ILLUMINATED SURFACE  
 WALL SURFACE

**NCIDQ**  
**Examination**  
 PRACTICUM  
 PART B  
 PDP-2015-2  
 PUBLISHED  
 DEC 2015  
 © 2015 CIDQ

LIFE SAFETY EXERCISE  
 LANC...  
 RAPIDDESIGN.  
 R-216 TEMPLATE  
 INTERIOR DESIGN/ARCHITECTURE  
 BATHROOM, BEDROOM, MOORING

**CIDQ**

**NCIDQ**

The Council for Interior Design Qualification  
 formally acknowledges that

*Mark Evan Bryan*

has satisfied the eligibility requirements of the Council and  
 successfully passed the standard NCIDQ Examination

Given under our hands and seal of the Council this  
 26<sup>th</sup> day of *April* in the year 2013

*Kim Asayuki*  
 President

*Chorobin*  
 President - Elect

Certificate No. 29370

# PAST FUTURES WORK

## Future of communities

Community formation, interactions, and locations by 2029.

## Future of cities

What happens to our urban centers and where people live?

## State of US democracy

Will trust in democracy decline? How can trust be built?

## AI's impact on retail

What does generative AI mean for product ideation and design?

## Future Today Institute

Founded in 2006, the Future Today Institute researches, models and prototypes growth, innovation, and strategic opportunity. As the leading strategic foresight and futures management consultants to executive leadership teams worldwide, FTI's data-driven applied research finds inflections and disruptive potential early.

FTI positions leaders to define big bets, backcast roadmaps to present-day action, and achieve their visions of the future.



*"The goal isn't predictions, it's to be prepared. The best way to prepare for the future is to reverse-engineer a future world in which your organization can thrive. Failing to plan is planning to fail."*

*– Amy Webb, CEO, FTI*



# FTI'S SEVEN-STEP FORECASTING FUNNEL



SIGNALS & LONG-TERM TRENDS

What is INFLUENCING the future?



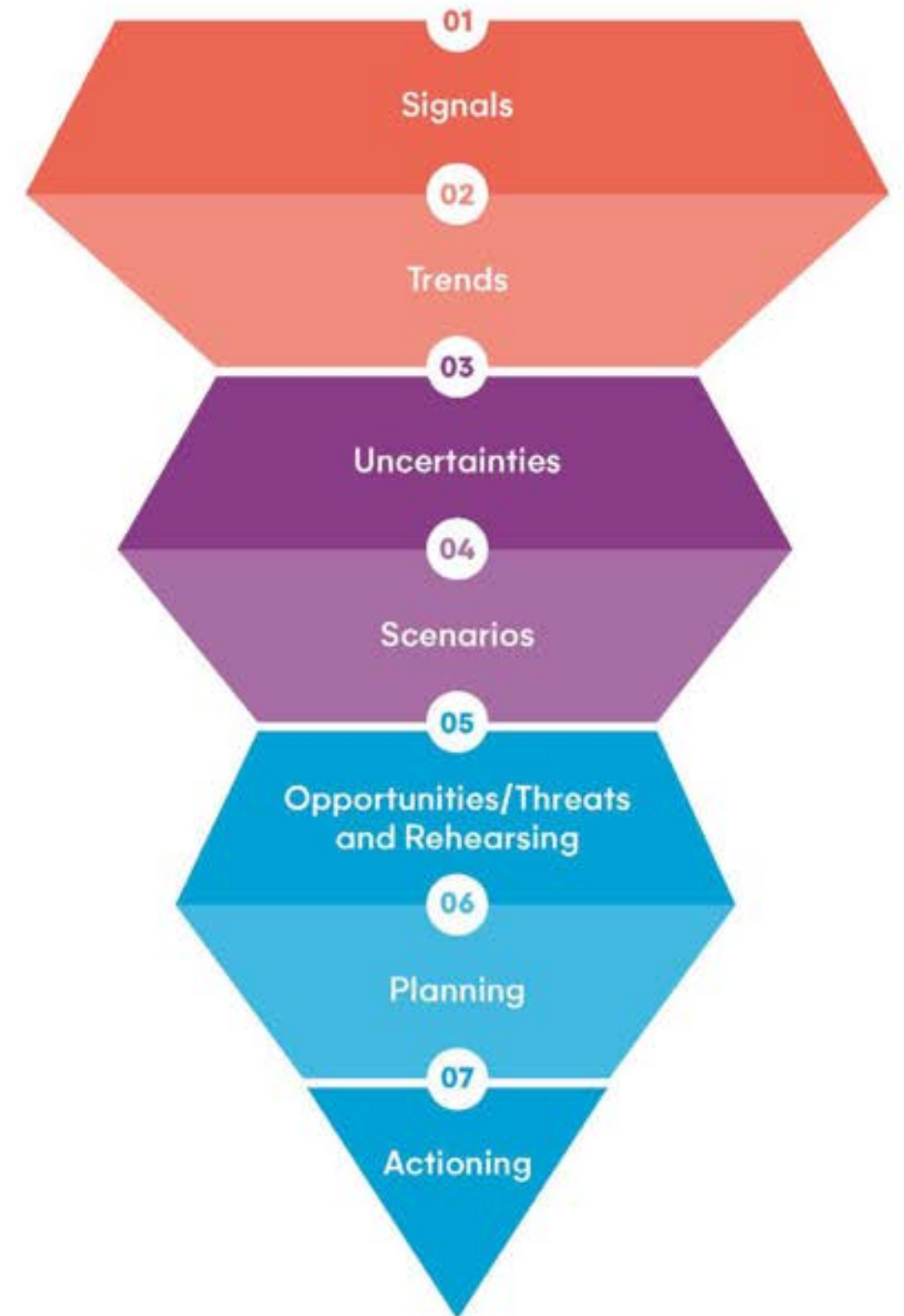
GLOBAL MACRO SCENARIOS

What is THE future?



STRATEGIC

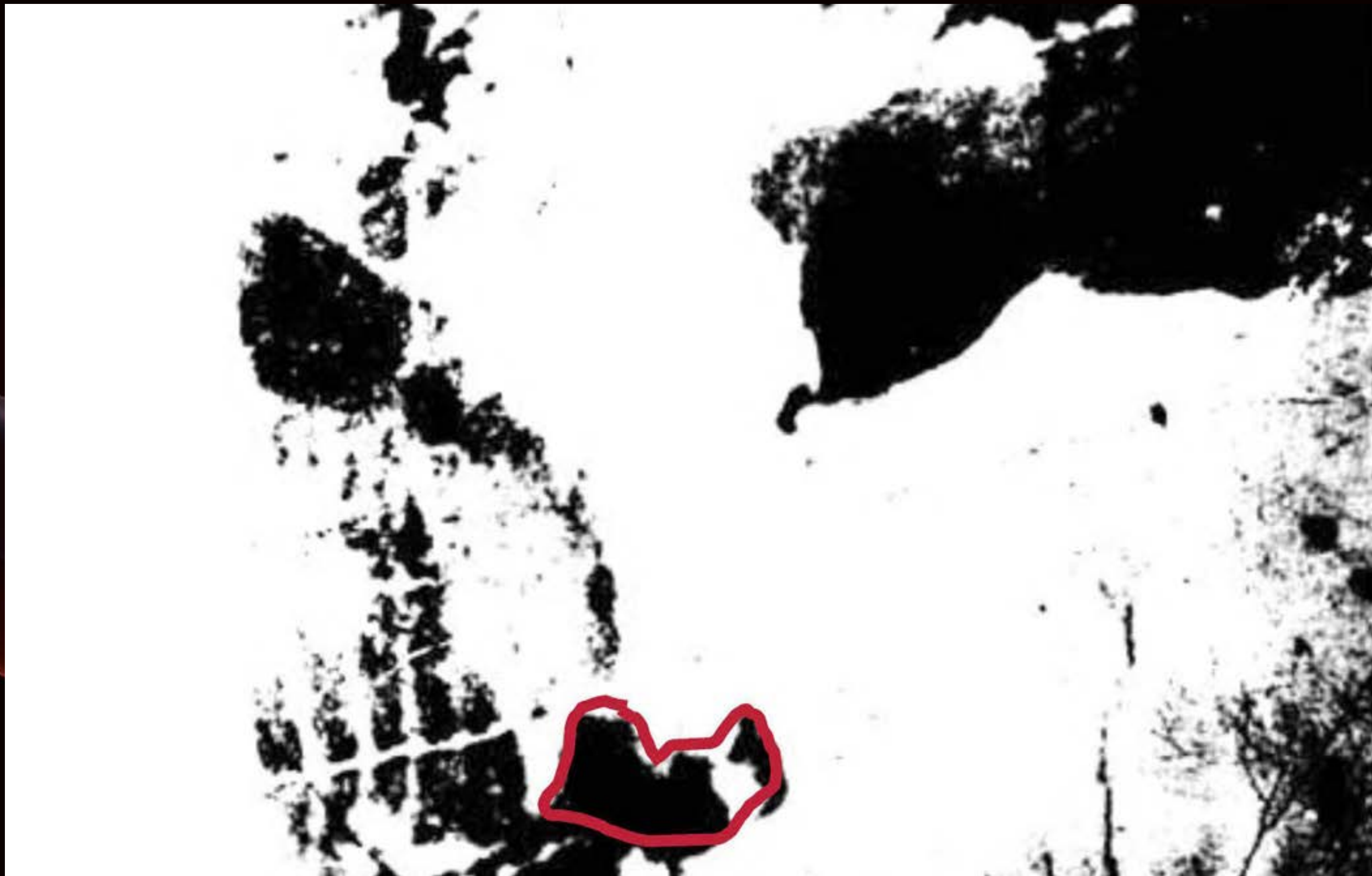
What is YOUR ORG'S future?



Today we will  
examine trends and  
uncertainties.

# Priming Exercise









# Dallenbach's Cow







# RE-PERCEPTION

The ability to see, hear, or become aware of something new in existing information.

Noticing what others missed.

We need to  
re-perceive where  
the industry is  
heading.

# Important Terms

# Artificial Intelligence

# LLMs

1. Narrow or Weak AI (ANI) – one task
2. General AI (AGI) – variety of tasks
3. Machine Learning (ML) – learning from data
4. Deep Learning – image and speech recognition
5. Natural Language Processing (NLP) – understand conversations
6. Computer Vision – understand visual information
7. Robotics – machines interacting in the physical world
8. Expert Systems – act as an advisor in specific domains
9. Reinforcement Learning – learn through feedback
10. Cognitive Computing – simulate human thought



1. Narrow or Weak AI (ANI) – specify furniture
2. General AI (AGI) – know human preferences
3. Machine Learning (ML) – analyze data for decisions
4. Deep Learning – recognize design styles in images
5. Natural Language Processing (NLP) – client communications
6. Computer Vision – analyze current spaces
7. Robotics – construction practices
8. Expert Systems – design guidance on standards
9. Reinforcement Learning – optimize layouts from feedback
10. Cognitive Computing – enhance the design process

AI can be  
combined.

# Generative AI

# Transformers (think ChatGPT)

# Deep Fakes

Re-perceive these  
signals.

## Sweeping new Biden order aims to alter the AI landscape

The White House is poised to make an all-hands effort to impose national rules on a fast-moving technology, according to a draft executive order.



President Joe Biden's new guidelines will give federal agencies influence in the US market through their buying power and their enforcement tools. | Jacquelyn Martin/AP

By **MOHAR CHATTERJEE** and **REBECCA KERN**

10/27/2023 07:27 PM EDT

Updated: 10/27/2023 08:06 PM EDT



GPT-4

### Human Cell

shutterstock

I'm a 9th grade biology student and I'm really struggling in school.  
Can you help me understand this?

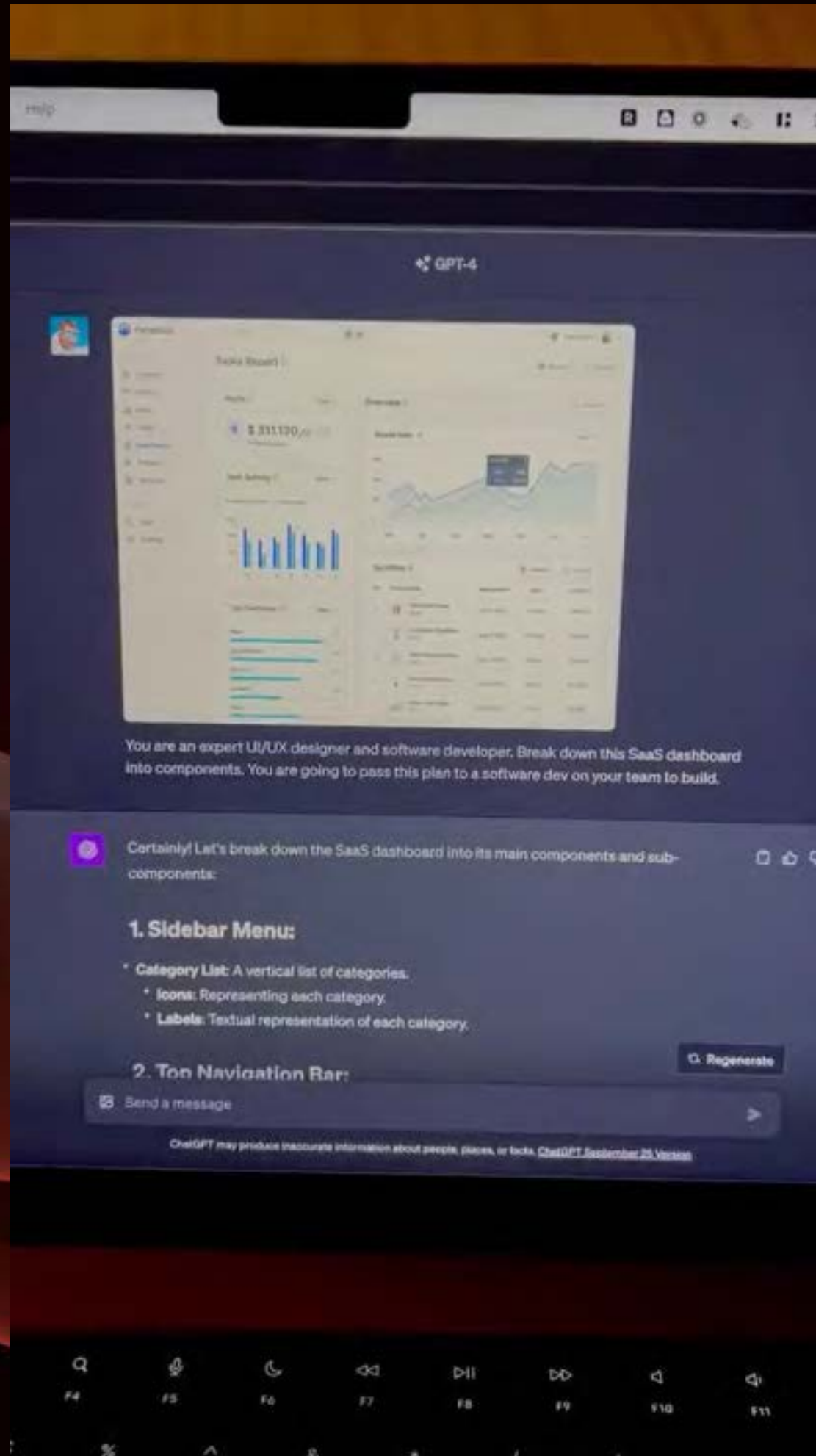
Of course! Let's break down the parts of the human cell depicted in the image:

- Nucleus:** This is the cell's control center. It contains our DNA and regulates the cell's activities.

Send a message

ChatGPT may produce inaccurate information about people, places, or things. ChatGPT 3.5 Turbo







this is a new architecture/interior design style, it doesn't have a name. How would you call this?



Observing the blend of traditional Greco-Roman motifs and elements with sleek, modern lines, innovative lighting, and contemporary furnishings, I would suggest the name:

**"Athenian Modernism".**

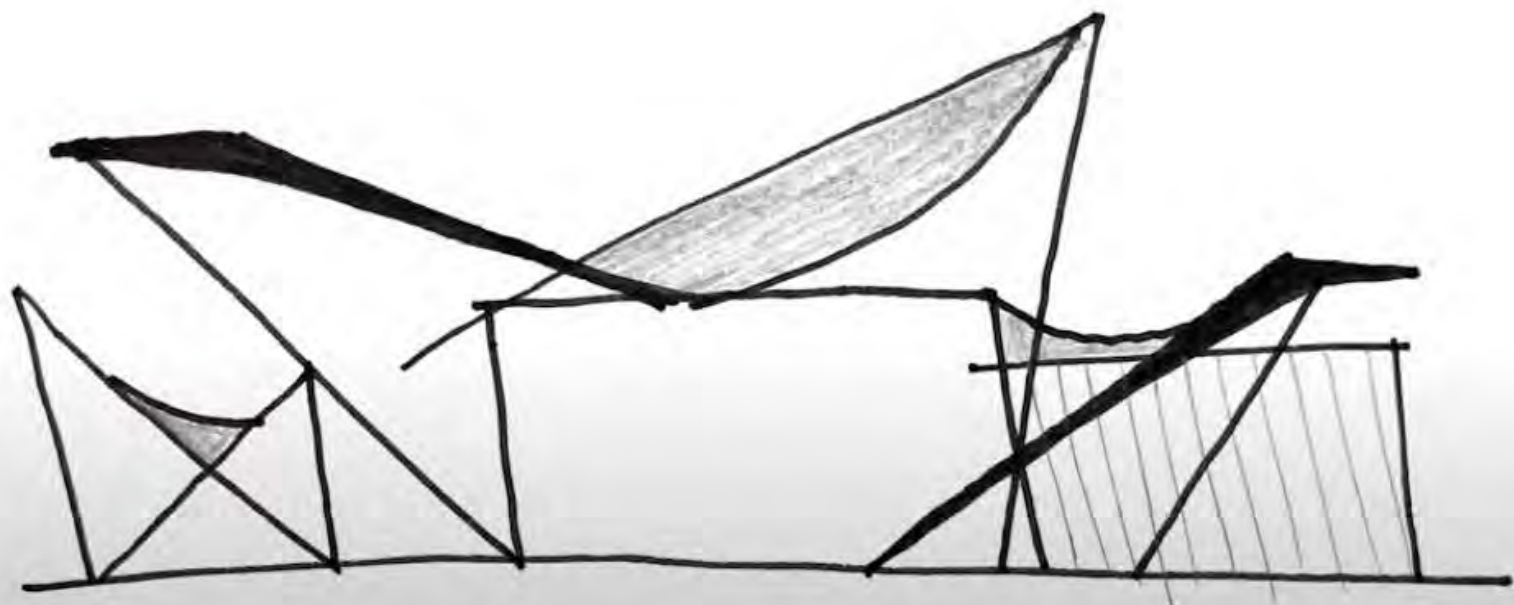
This term marries the ancient Greek influences visible in the architecture and design elements (like the frescoes, columns, and moldings) with the sleek, futuristic feel of modern design. "Athenian" evokes the classic Greek aesthetic, while "Modernism" captures the fresh, updated feel.

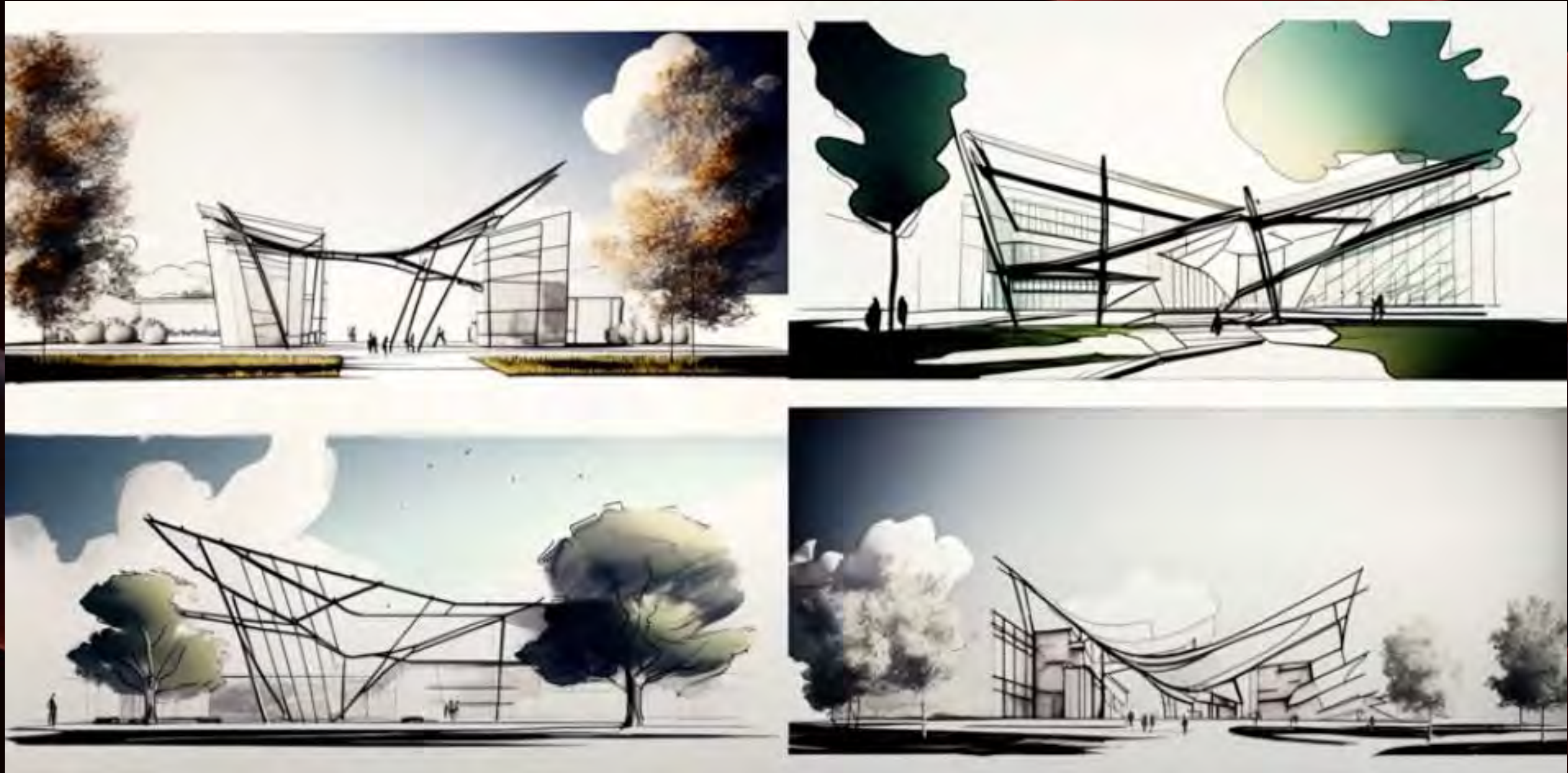


It's Wednesday at 4 pm. Can I park at this spot right now? Tell me in 1 line.



Yes, you can park for up to 1 hour starting at 4 pm.







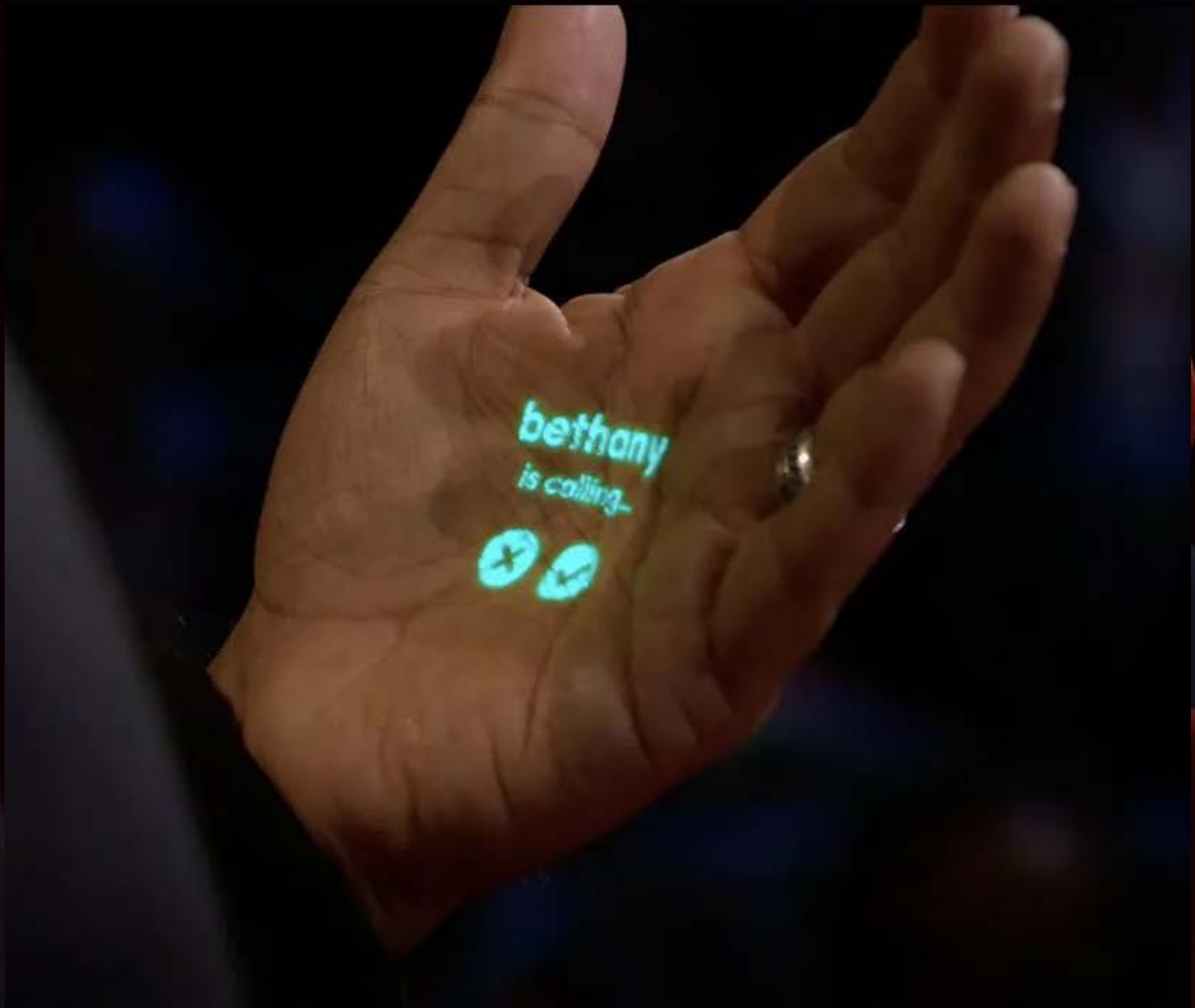




CREA ATELIA

# Adobe





What did you  
re-perceive?

# Where is the Design Industry's LLM?

Will there be a state  
by state approved  
LLM?

Will there be AI/data audits for each firm?

# Can we automate compliance reports in new ways?

# How can we automate learning?

# AI Planning







### 3D virtual tours

Automatically generated 3D virtual tours that bring each test fit to life, providing an interactive and realistic experience.



### 3 Test fit alternatives

Optimized by AI-powered engines that automatically create, compare, and assess every option to produce the test fits.



### Performance analysis

A complete analytic report which compares each alternative's attributes, helping your clients make informed, data-driven decisions.

[Sample report](#)



### 3 Test fit alternatives

Design A



### 3 Test fit alternatives

• Design A • Design B • Design C



Daylight

Privacy

Efficiency

**Archistar** Comply Tier Business

**My Submissions / Assessment / Clause**

blk.124: SLHC - TypeA  
Cairnlea Horizon 1 - Precinct 1: v2.0  
Submission: VIC\_SLHC-48FF3C2652

**6.0 Car parking** Passed

This standard relates to the number of car parking space(s) on the site.

**6.1 Car parking spaces** Passed

1 car parking space if the building has two or less bedrooms 2 car parking spaces if the building has 3 or more bedrooms

Passed - 2 parking space found in the m...

1 car parking space

Not Applicable - Only applies to Type B lots

Show original clause

**6.2 Car parking spaces accessibility** Passed

**6.3 Single car parking dimensions** Not Passed

**6.4 Double car parking dimensions** Passed

**6.5 Car parking height** Passed

**Legend**

Passed

blk.119 (SLHC - TypeA) 238 m2 (8.5m x 28m)

blk.117 (SLHC - TypeA) 213 m2 (8.5m x 25m)

blk.123 (SLHC - TypeA) 188 m2 (7.5m x 25m)

blk.160 (SLHC - TypeUnclassified) 187 m2 (8.5m x 22m)

blk.161 (SLHC - TypeUnclassified) 187 m2 (8.5m x 22m)

blk.162 (SLHC - TypeUnclassified) 275 m2 (11m x 25m)

blk.148 (SLHC - TypeUnclassified) 213 m2 (8.5m x 25m)

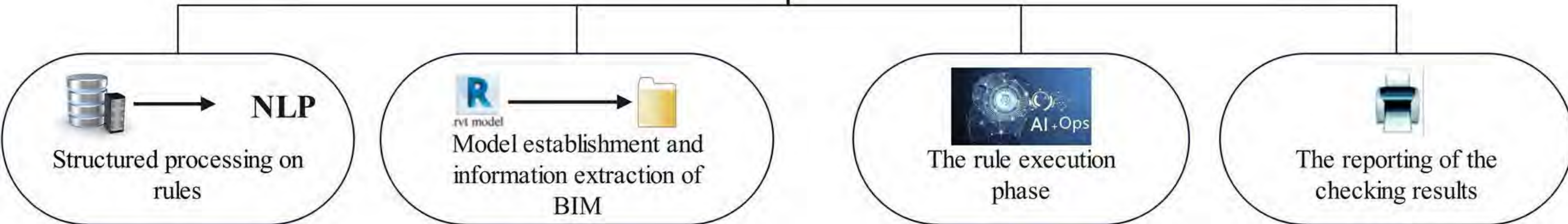
blk.149 (SLHC - TypeUnclassified) 213 m2 (8.5m x 25m)

blk.163 (SLHC - TypeUnclassified) 250 m2 (10m x 25m)

8.51m @ 18

mapbox

## Automated Compliance Checking System based on BIM



Will designers act  
more as editors?

Can this be used to  
model meeting life  
safety standards?

# Digital Twins Testing









What if construction  
documents go  
away?

# What are the standards for evaluating AI simulations?

# What are the standards for space longevity?

Do you have to opt-  
in in all spaces?

# Prompting Design











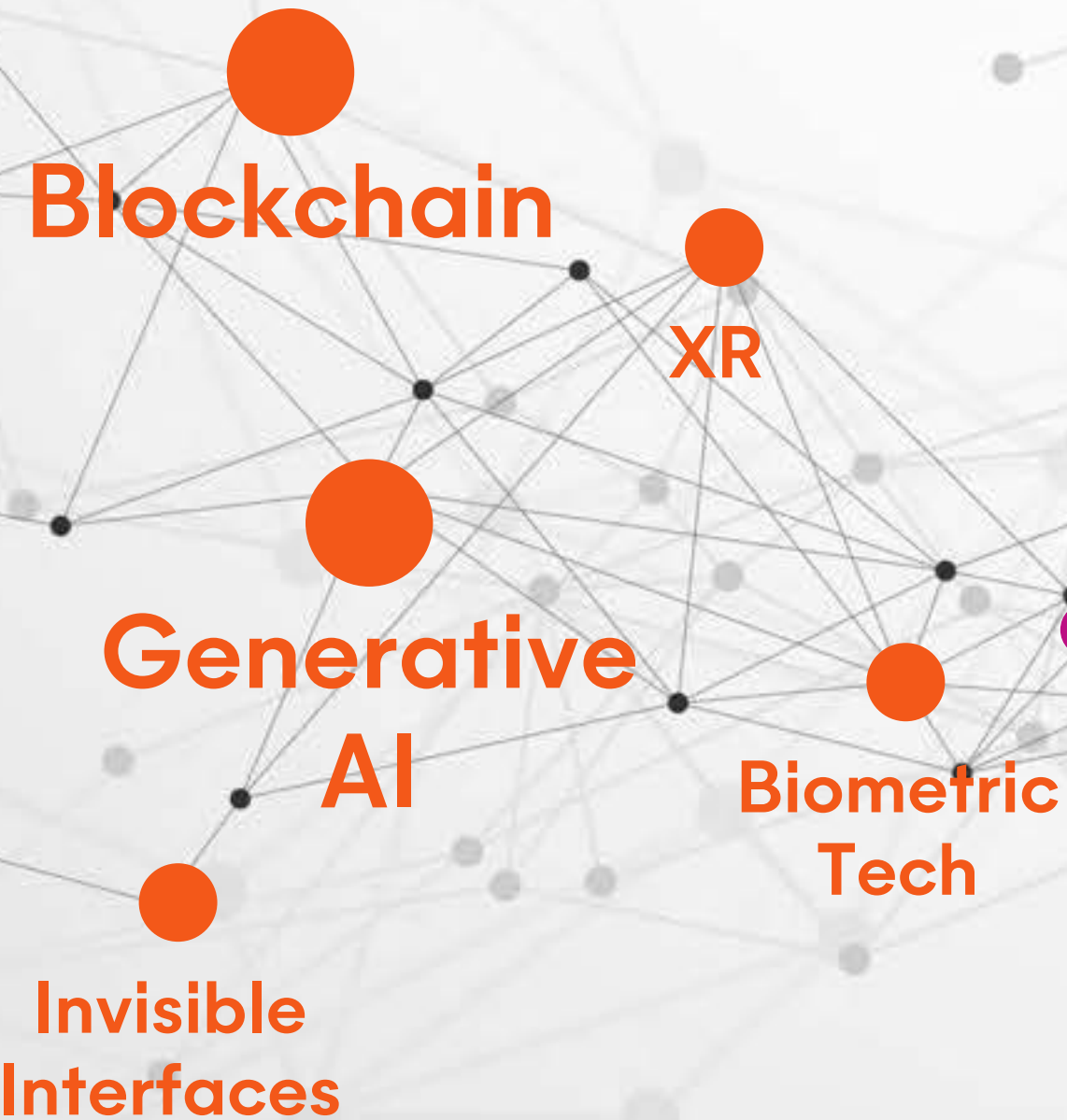
What if talking is  
the new designing?

What are the  
standards for the  
words we use?

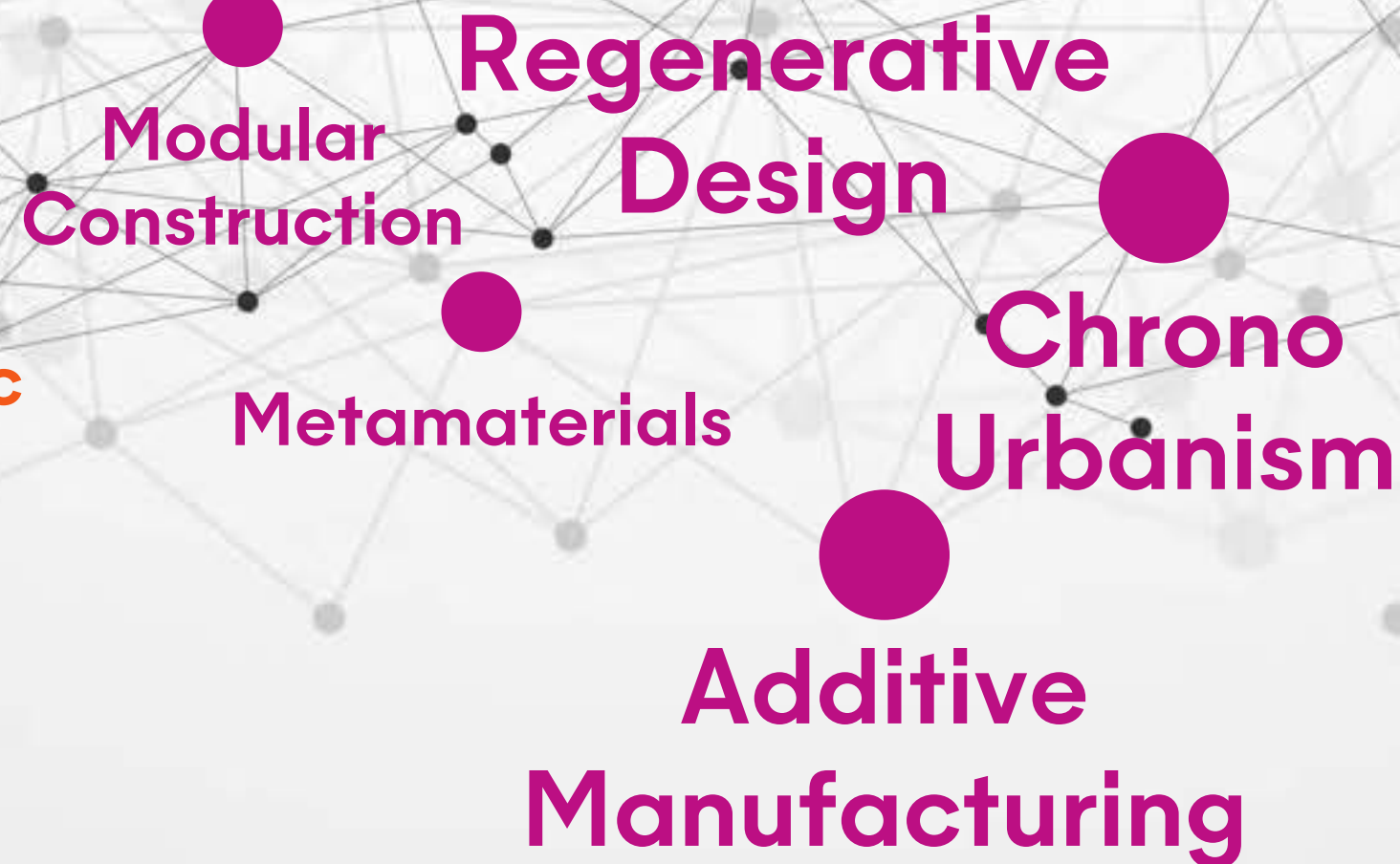
But AI  
is not alone.

# Interconnection of AI and Design's Future

## Tech / AI



## Practice Changes



## Global Shifts



# What's coming next?



Generative AI takes  
over design.

Design becomes a  
commodity.

Regulators create standards for using LLMs and models.

# Information sourcing and use changes.

A need for  
increasingly  
personalized CEUs.

States become split  
on what AI is  
allowed to do.

Data privacy is  
different in each  
state.

How do we visualize  
what's next because of  
these uncertainties and  
trends?



# Scenarios



## ACT

### Risk Without Action!

- Previously unseen immediate benefit to our company or designers
- Inflection point is imminent
- Impacts our financial projections

## DECIDE

### Near-Term Opportunity or Risk

- Could disrupt our business
- Near-term market or operational risk
- Meaningful impact on our brand positioning to designers

## MONITOR

### Long-Term Opportunity or Risk

- Knock-on effects could shape our industry or business
- Could pose novel risk
- Could create new demand for our product/ services

# For the Designer

# The year: 2033


Designers use more  
virtual design tools.





Designers become more  
immersive and  
sensorially responsible.






Each designer can have  
their own AI mentor.  
For life.







Designers use smarter materials.



Designers make places that  
constantly change as they  
learn from us.





## Walk-Up CEUs

(The Mobile CIDQE U)

is here for you!

We create your custom CEUs  
in under an hour, including  
automatic reporting.



# For You

# The year: 2033




More extensive  
monitoring and  
collaboration.



Automatic  
portfolio  
licensing.





NCIDQ.AI  
Personalized testing.








# CIDQ 2033 Annual Conference



The image shows the interior of a restaurant or dining area. On the left side, there is a large, white, tent-like structure made of fabric, possibly for insulation or decoration. The room is dimly lit with warm, yellowish light from several pendant lamps hanging from the ceiling. In the background, several tables are set with white tablecloths and chairs. A few people are seated at the tables, and the overall atmosphere is cozy and intimate. The text "Extreme weather housing regulation breakout sessions." is overlaid in white on the lower part of the image.

Extreme weather housing  
regulation breakout  
sessions.



# So, what now?

# 1. Review AI-integrated education needs.

# 2. Prepare for combined AI examinations and practices.

3. Determine the ethical use of AI in testing and practice.

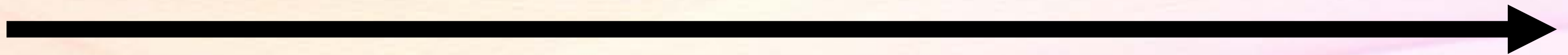
4. Monitor state use  
of data and AI  
regulations.

5. Begin to workshop  
standardization on  
future skills.



# 6. Discuss innovation versus regulation.

The most dangerous shape in  
business and the world.



Ask “what if”  
now...

# More Resources



SCAN ME



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