

Adaptable Thinking in Safety

Five High-Impact Questions

(You can apply in any situation)

**Deeper, Faster,
More Complete Thinking**

THINGS CHANGE WHEN
THINKING CHANGES.





HSMS determined by OSHA,
leadership, risk management, hazards,
incidents, etc.

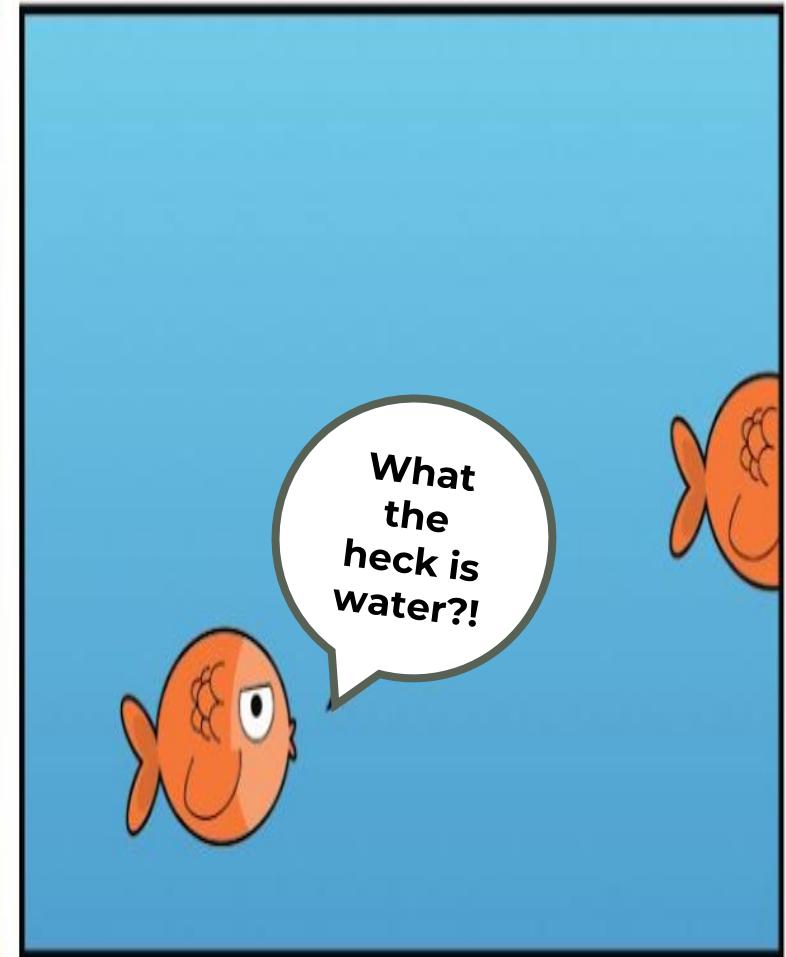
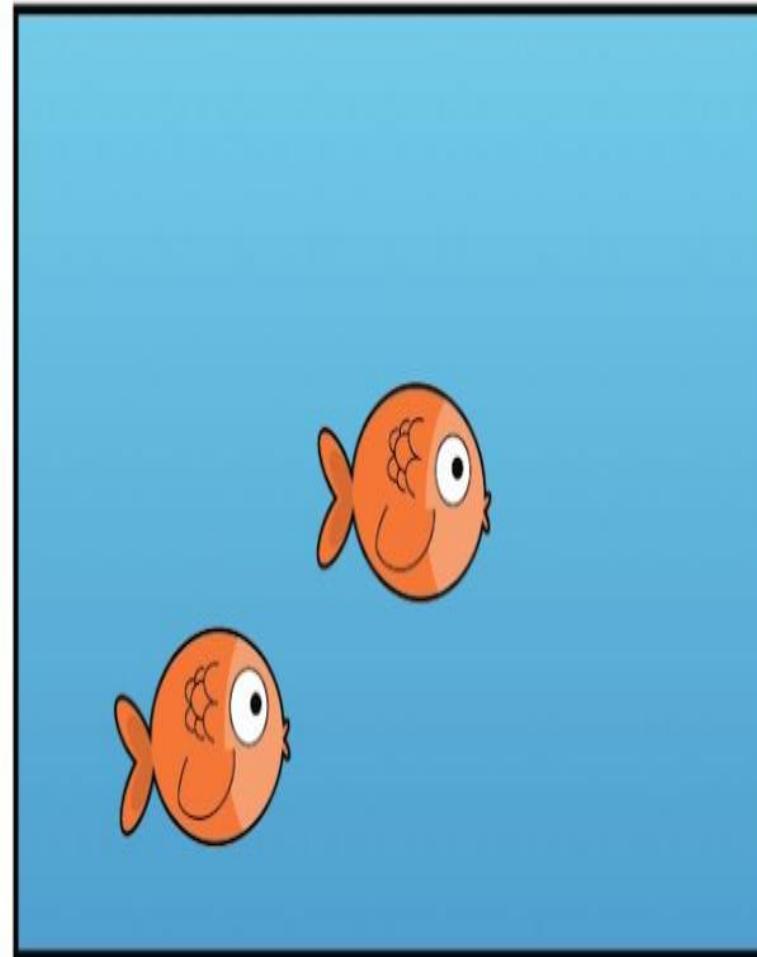
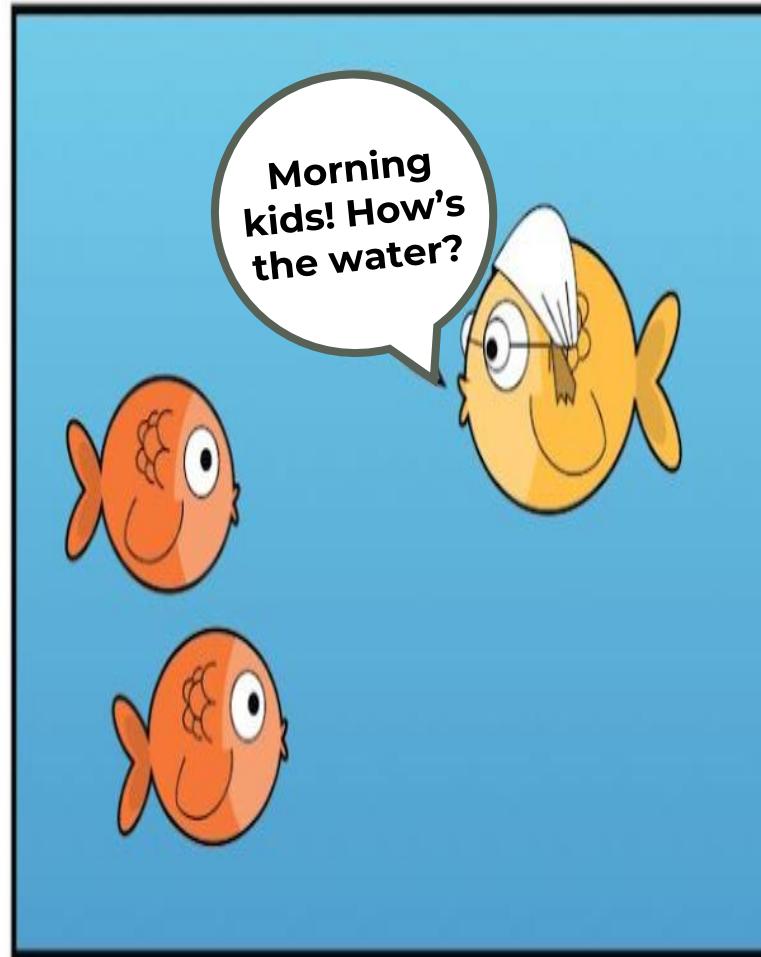


HSMS executed through people
making 30,000-35,000 choices a day-
per person!

Thinking is Something We All Do, But Don't Give Much Thought to How

David Foster Wallace - This is Water

@tsmz



THINKING = THE ORGANIZATION OF INFORMATION TO MAKE MEANING

We **DISTINGUISH (D)** between one thing and an *other* thing.

We sort things into parts and wholes or **SYSTEMS (S)**.

We see the **RELATIONSHIPS (R)** between and among things (how they act upon and react to each other).

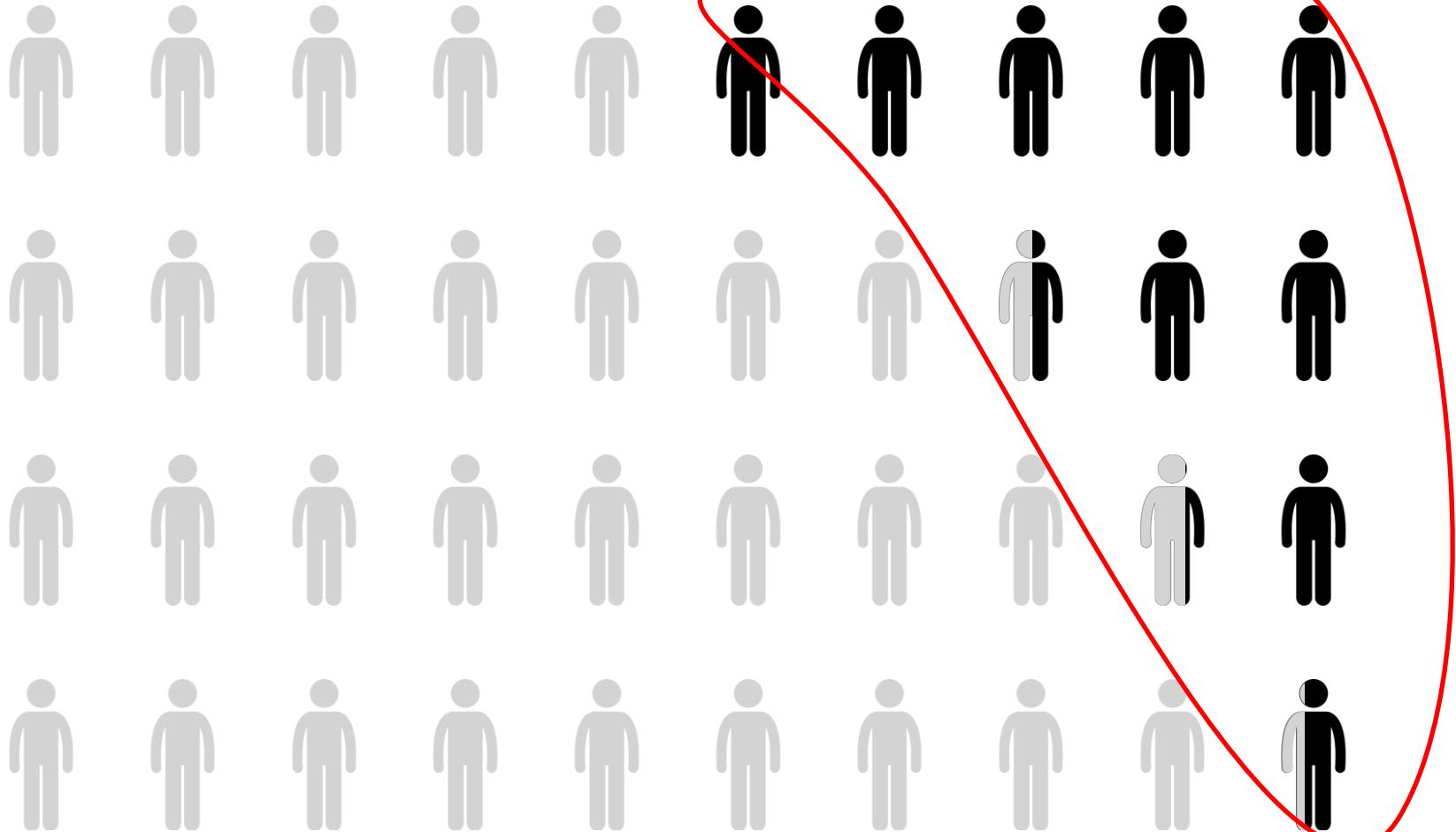
We take **PERSPECTIVES (P)** – that is from the point of one thing, we view another thing.



34,000 participants!

Your Team of Ten.
Tasked to Think Through a Problem...

5 out of 10 get stuck and do nothing.
The other 5 start **identifying** things.
None consider the **other**.



Only 2½ members break the problem down into parts (i.e. **zoom in**). None consider the **context** (i.e., **zoom out**).



Just 1½ members consider how the elements of the problem are **related**.
None **zoom into the relationship**.



<1 identify more than their own **perspective**.



0 identify their **biased point or view**.

From Hangry, to Happy & Thinking

We will teach you to do somethings better, show you some things you don't know to do.



What people tend to do—and not do—while thinking through a problem



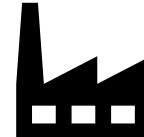
What people need to do more of while thinking through a problem

OSHA Prevention Videos (v-Tools) Script

Vehicle Back-Over Fatality

During a site expansion, a surveyor was spray painting the ground to outline the area for a new building pad. At the same time, the driver of a wheel tractor scraper was moving forward to get the ground ready for pad construction. There was no spotter at the site, and there was no internal traffic control plan in place.

Before backing up to go over the ground again, the driver checked his rearview and side mirrors. He didn't see anyone in his mirrors, so he backed up. The driver's back-up alarm didn't work, so the surveyor did not hear the scraper coming towards her. As the driver backed up, he ran over the surveyor. She died from the injuries.



**We will call this company:
America Company**

America Company

Business is good

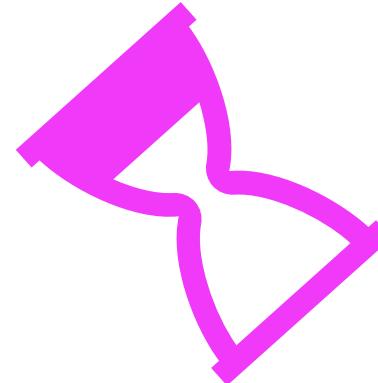
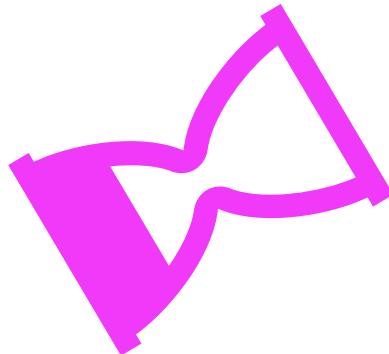
Company is successful and growing

Site Expansion-Big Project

Select Vendor(s) to support the work

Fail to implement critical, required safety measures

Fatality of vendor employee



Put ourselves at America Company, armed with these questions rewinding the clock to the project start!

Question One

We **DISTINGUISH (D)** between one thing and an *other* thing.

What is X? Answer with an Is / Is Not List

11

X is

X is not

the distinction the distinction the distinction the distinction

What is a Sandwich? Is /Is Not List

12

A Sandwich is

Includes 2 pieces of bread

Bread is split roll or bun

Pick it up to eat it

Customizable ingredients

Bread encloses the fillings

A Sandwich is not

Single base without a top

Has Non-bread enclosure

Enclosed in single continuous piece

Must be eaten with utensils

Prepared as single item

What is Construction? (incl. OSHA Defined)

13

Is Construction
29 CFR 1910 + 1926

Excavating

Paving/Foundation Work

Construction Equipment

Building/Framing

Alterations

Painting & Decorating

the distinction the distinction the distinction the distinction the distinction

Is Not Construction
29 CFR 1910

Production

Warehousing

Maintenance

House Keeping/6S

Standard Work

Installation?

What is the Expansion Project?

Is Expansion Project

The biggest part of growth plan

Success is the driver

Exciting opportunity
& big risk

“All Hands” on deck

Multi-phase (design, plan,
construction, installation, etc.)

Well planned and
communicated

Is Not Expansion Project

A blank check

Small investment

An endless wish list

Absorbable workload

Impossible

A time to get frustrated, and
overly stressed

the distinction the distinction the distinction the distinction the distinction



Question Two

We sort things into parts and wholes or **SYSTEMS (S)**

What is *X* part of, and what are the parts of *X*?

Answer by Zooming In/Out

Whole X belongs to

X

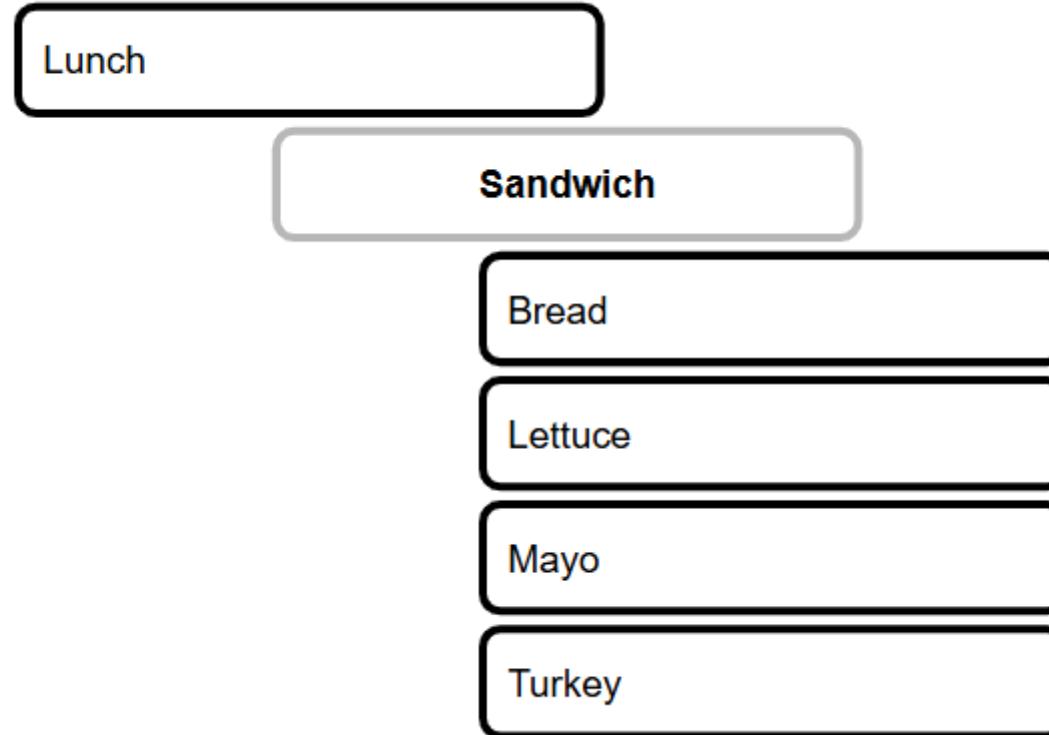
Part of X

Part of X

Q2

What is a sandwich part of, and what are its parts?

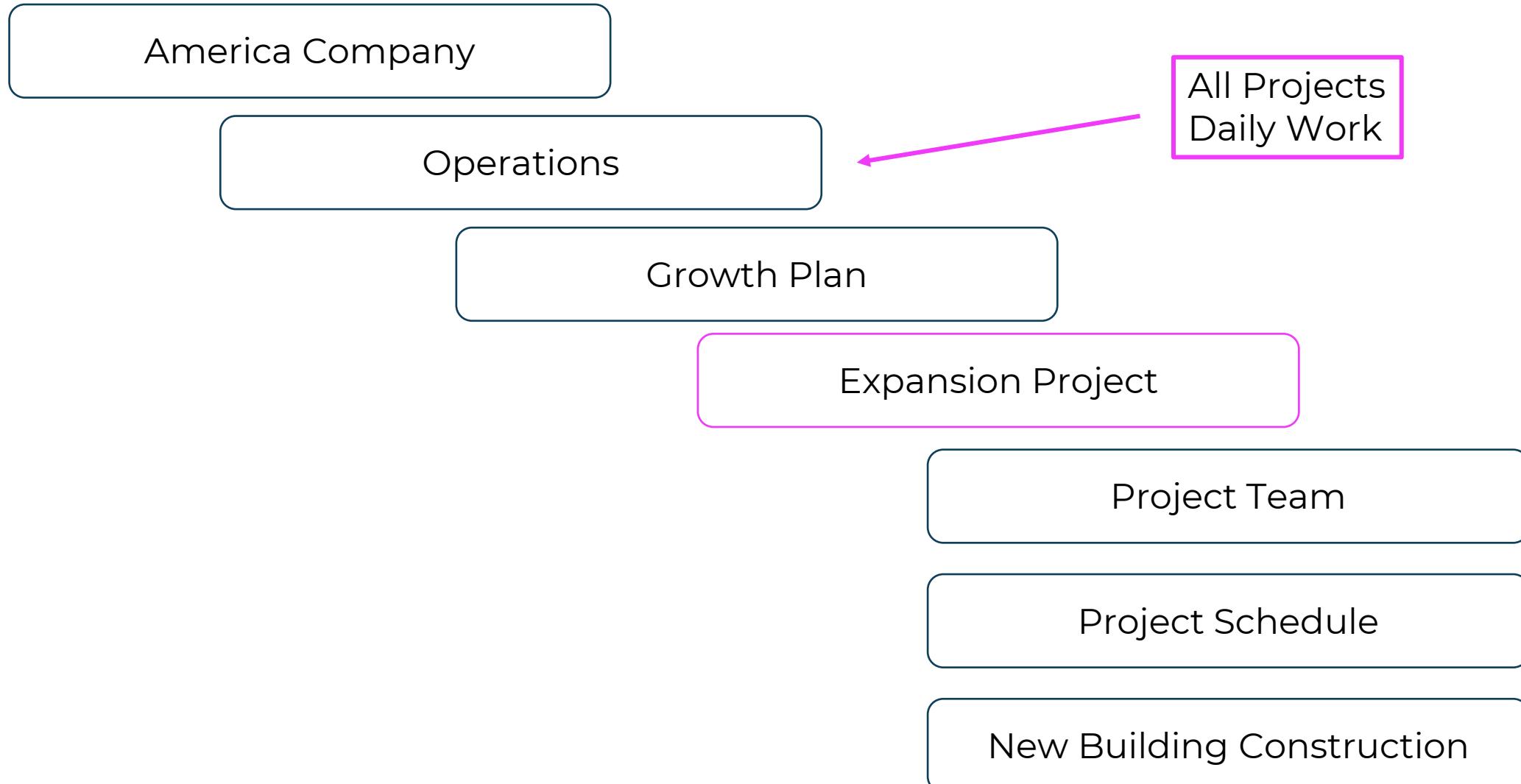
Zoom In/Out - a Sandwich



What is the Expansion Project Part of, and what are its parts?

Zoom In/Out – Expansion Project

18



What Are the Parts of the New Building Construction?

19

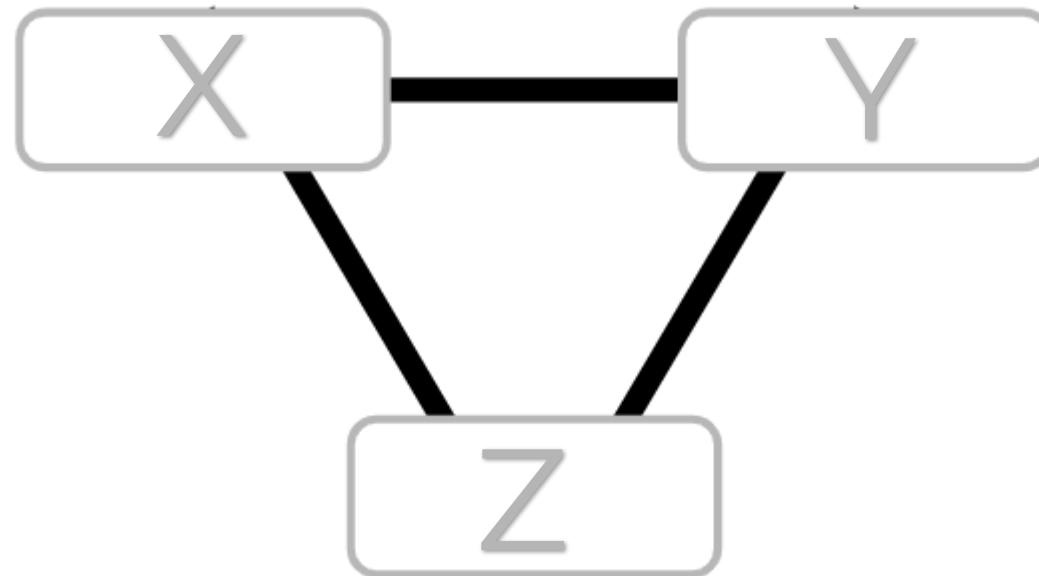


Question Three

We see the **RELATIONSHIPS (R)** between and among things.

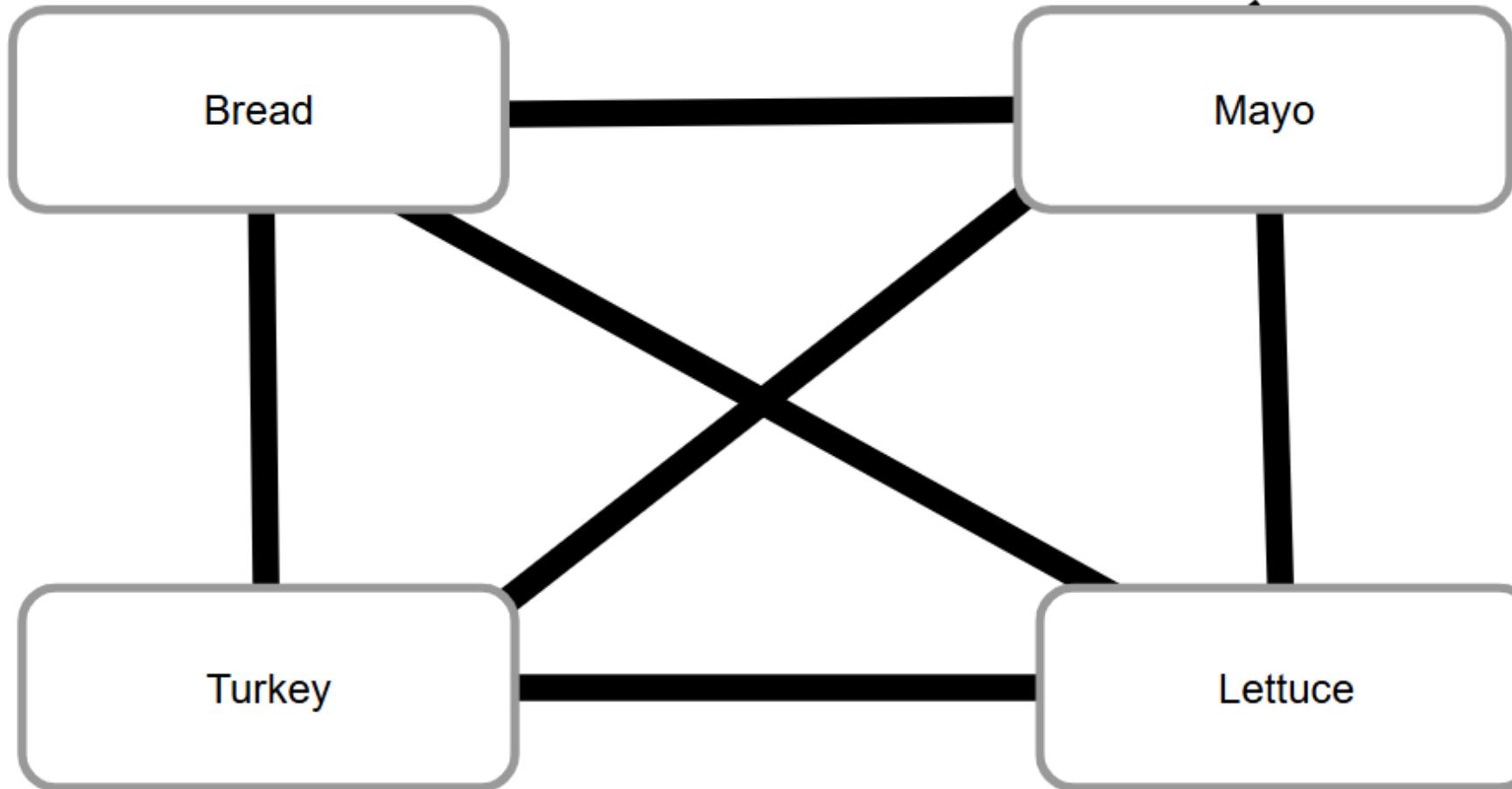
How are these parts related? Do a Part Party!

21



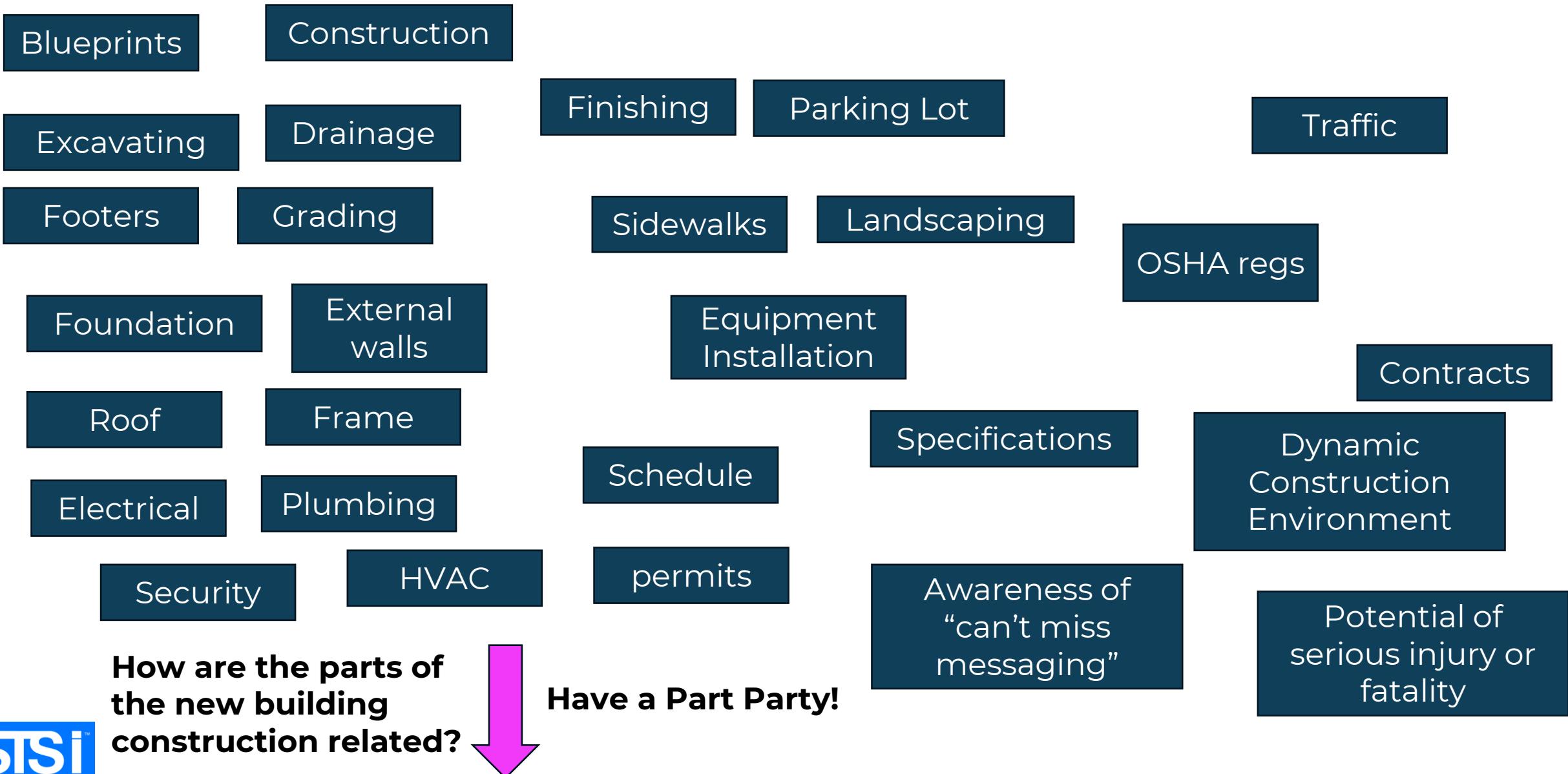
How are the Parts of a Sandwich Related? Part Party! Move - a Sandwich

22

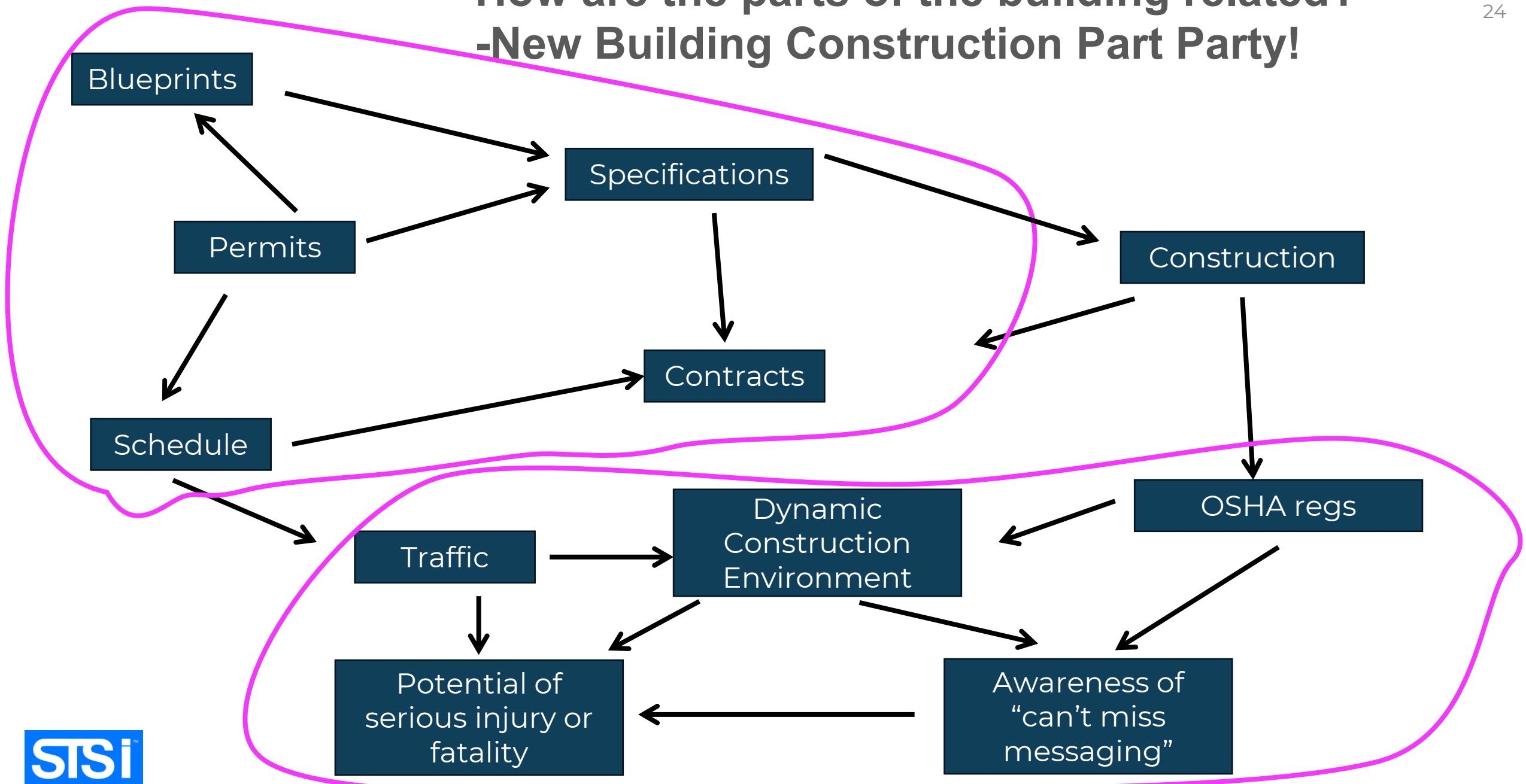


Zoom In Move – New Building Construction

23



How are the parts of the building related? **-New Building Construction Part Party!**



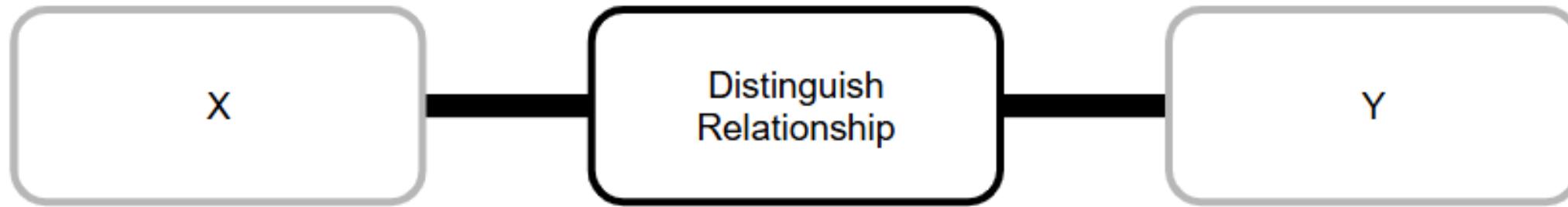
Question Four

We see the **RELATIONSHIPS (R)** between and among things.

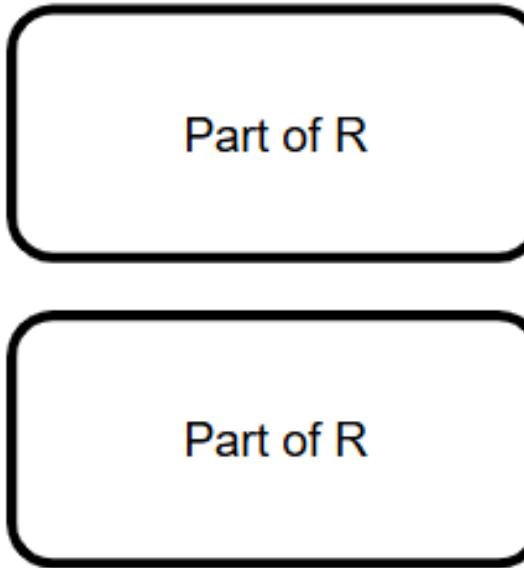
What do I see when I zoom into the relationships of X?

26

Create an RDS Barbell



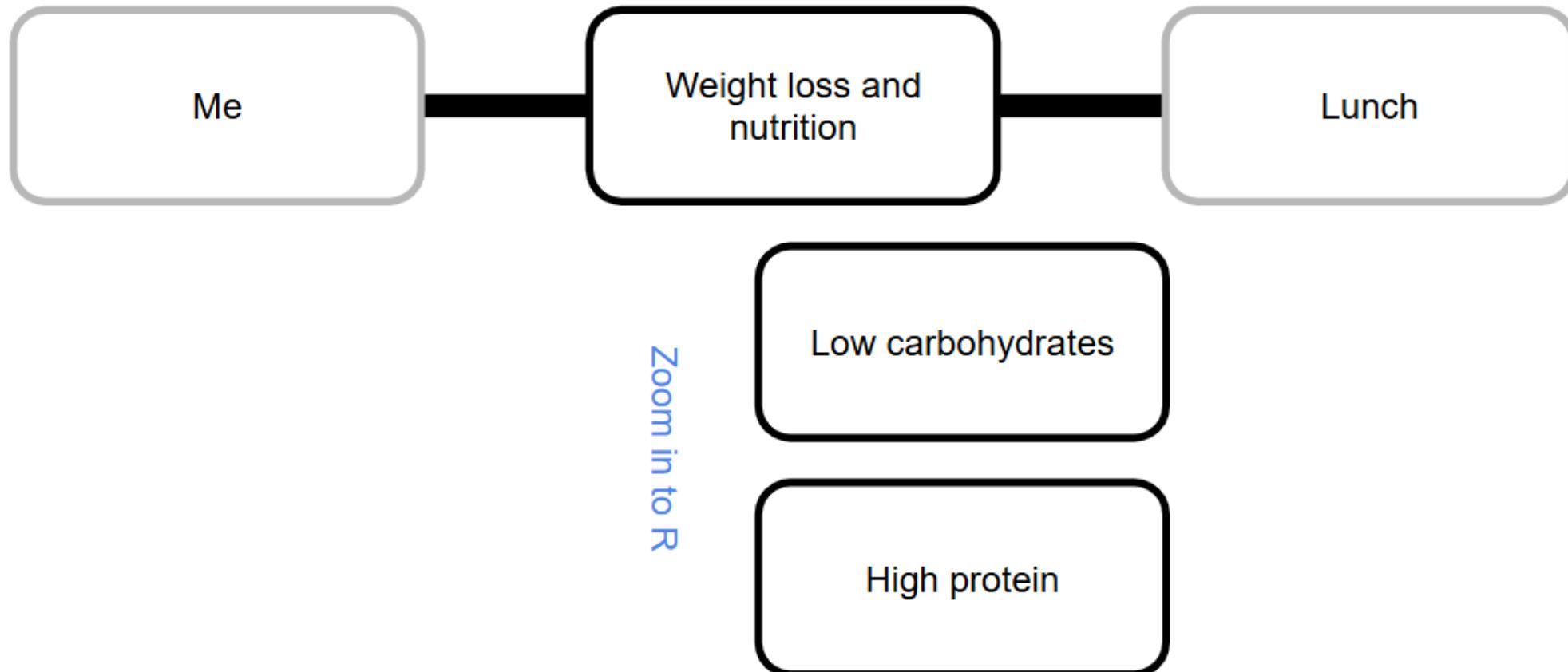
Zoom in to R



What parts do I see when I zoom into the relationships?

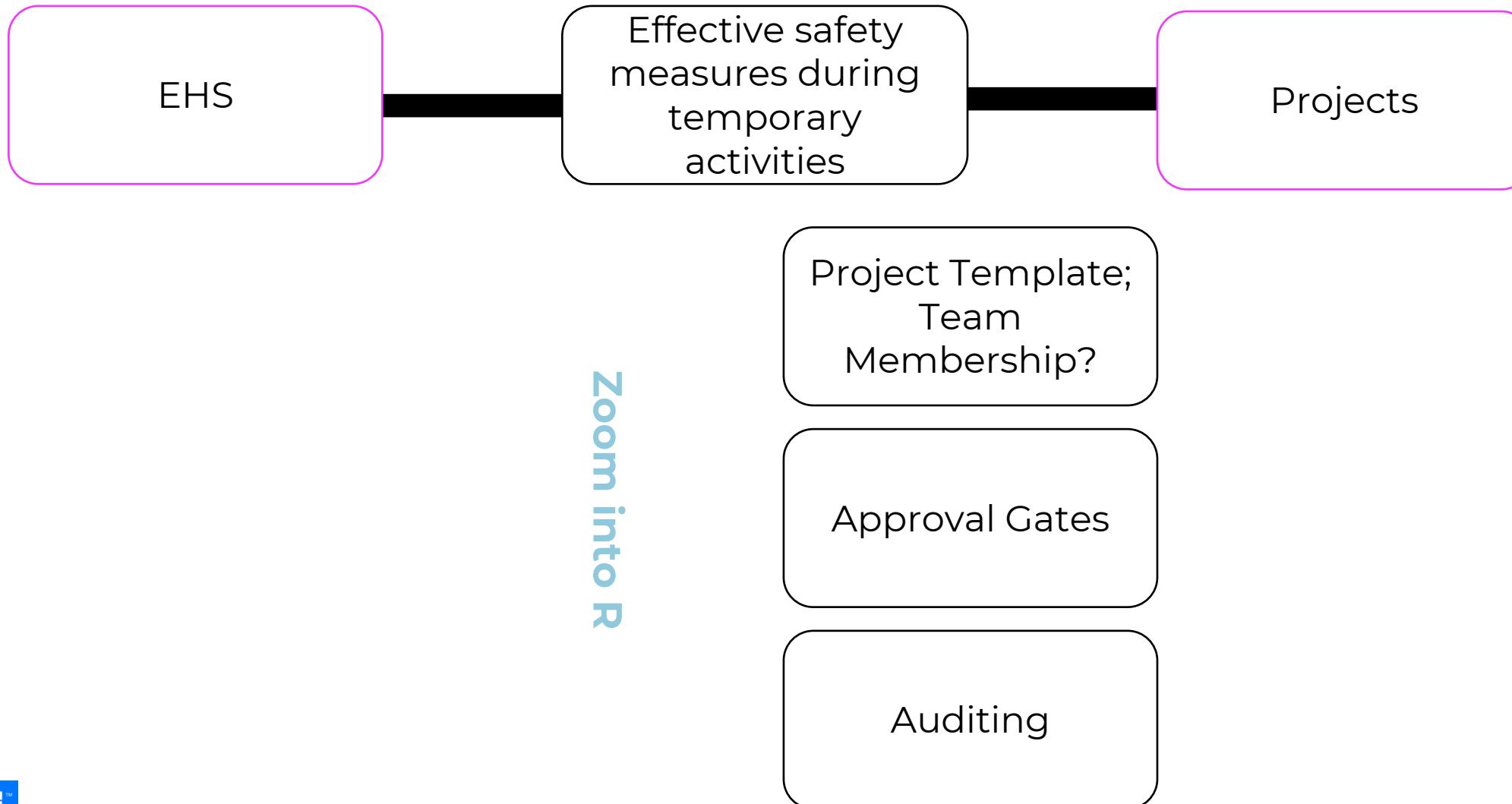
27

RDS Barbell – Me/Lunch



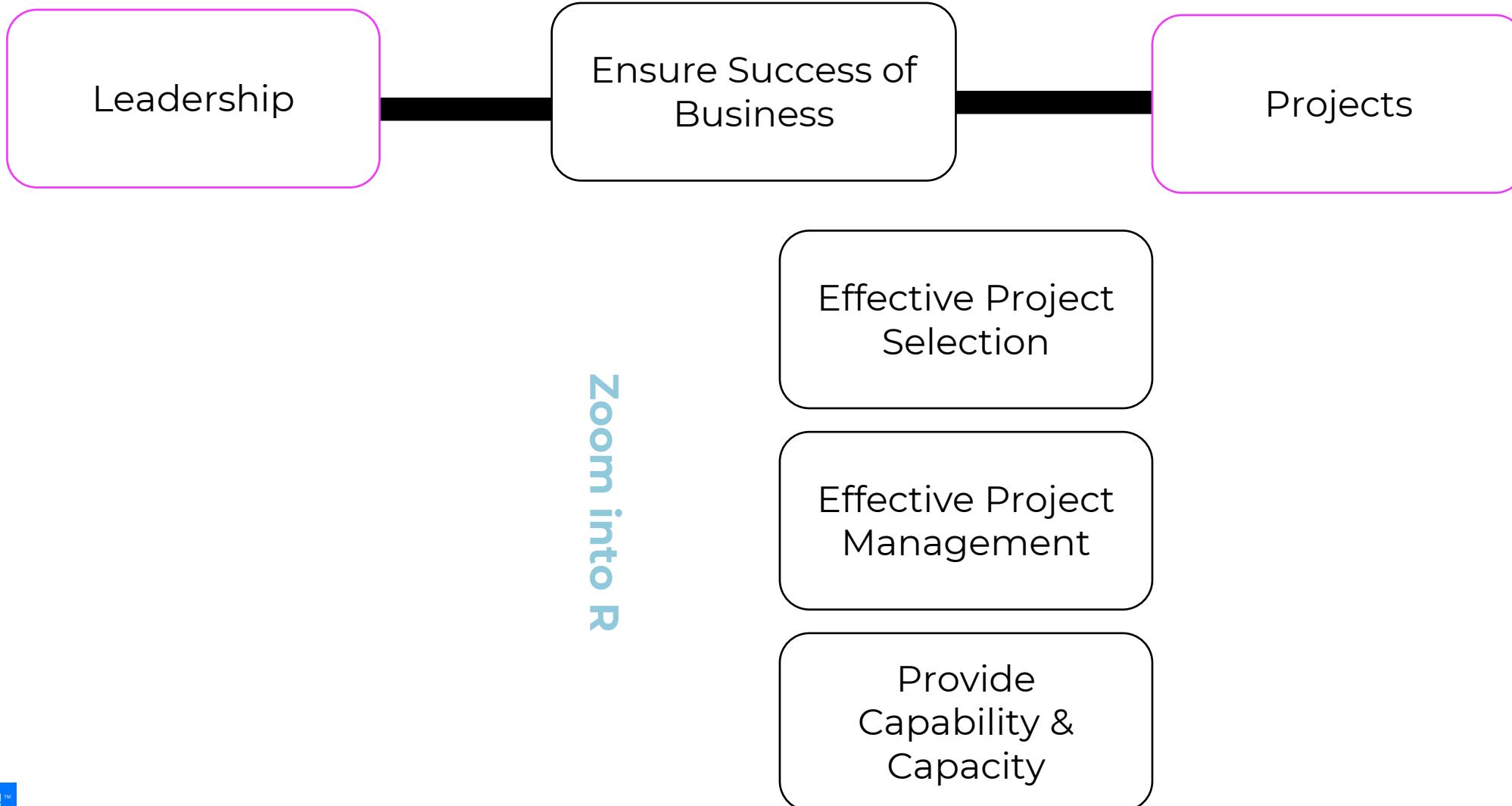
What do I see when I zoom into the relationship of EHS and projects? RDS Barbell – EHS & Projects

28



What do I see when I zoom into the relationship of leadership and projects? RDS Barbell – Leadership & Projects

29

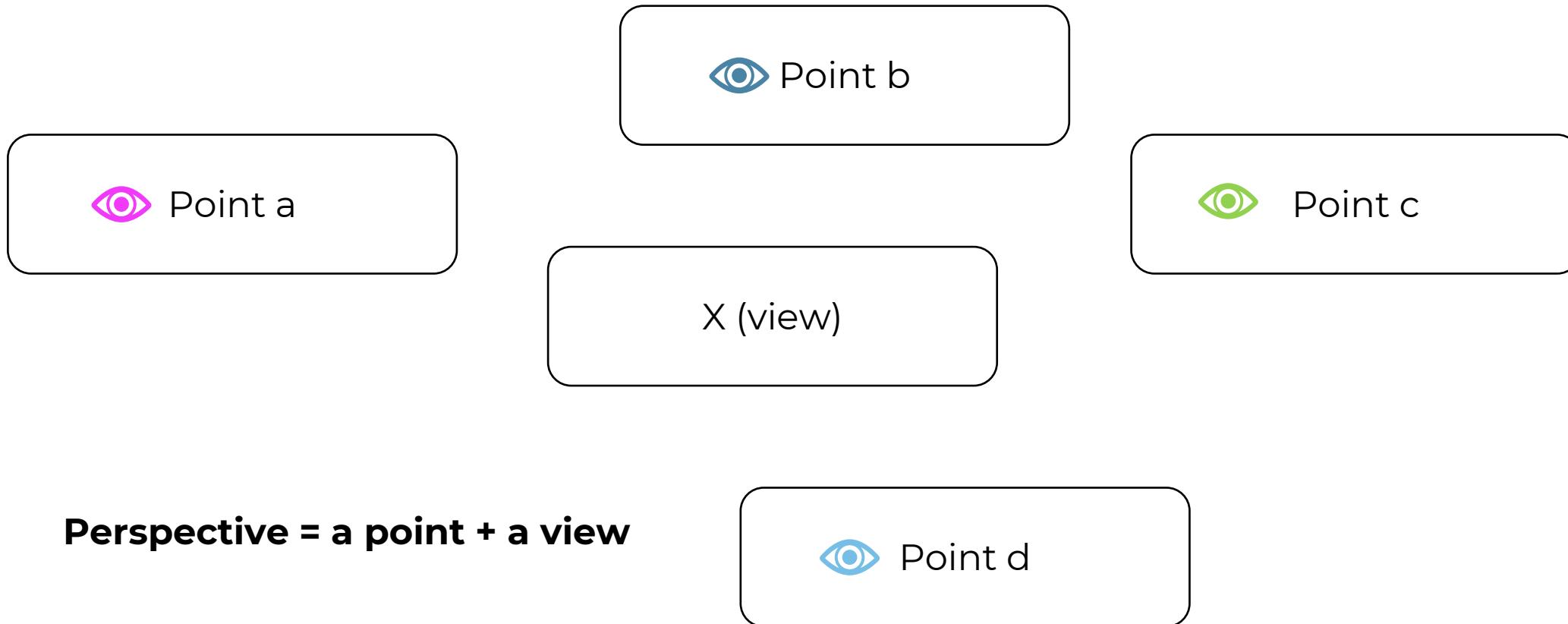


Question Five

We take **PERSPECTIVES (P)** – from the point of one thing, we view another thing.

From what or whose point of view must I look at X?

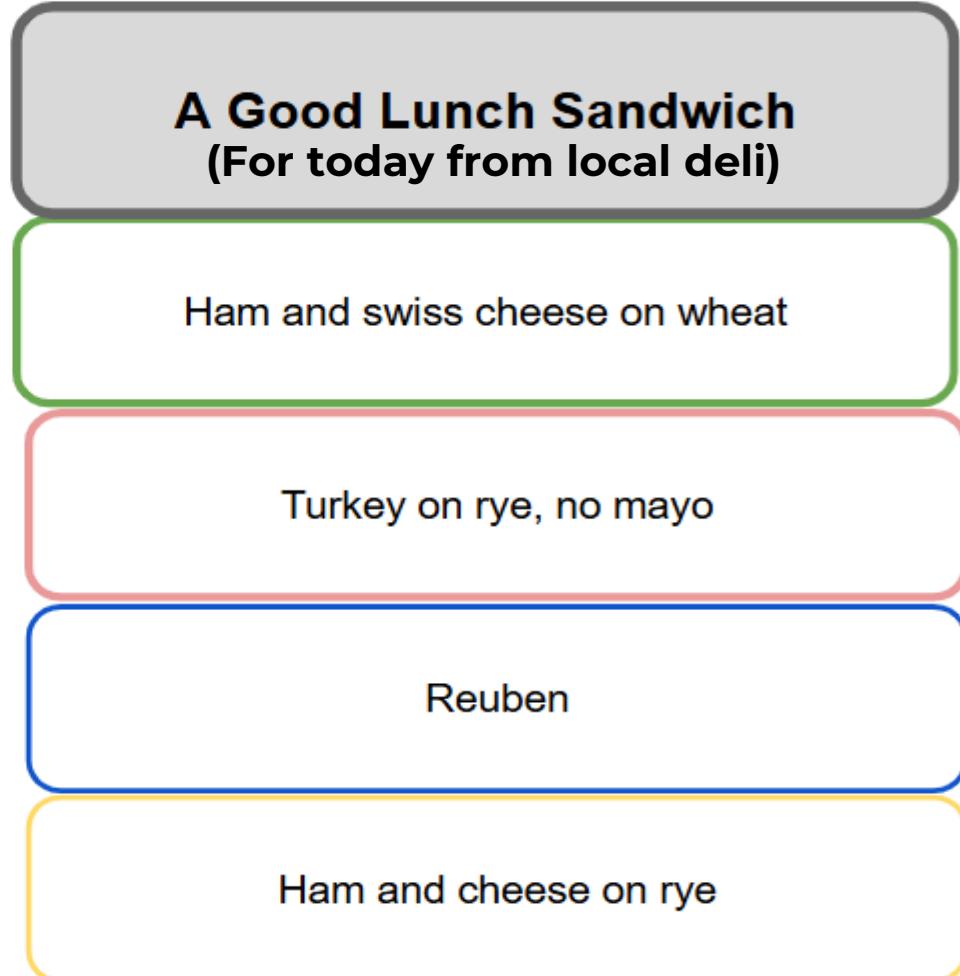
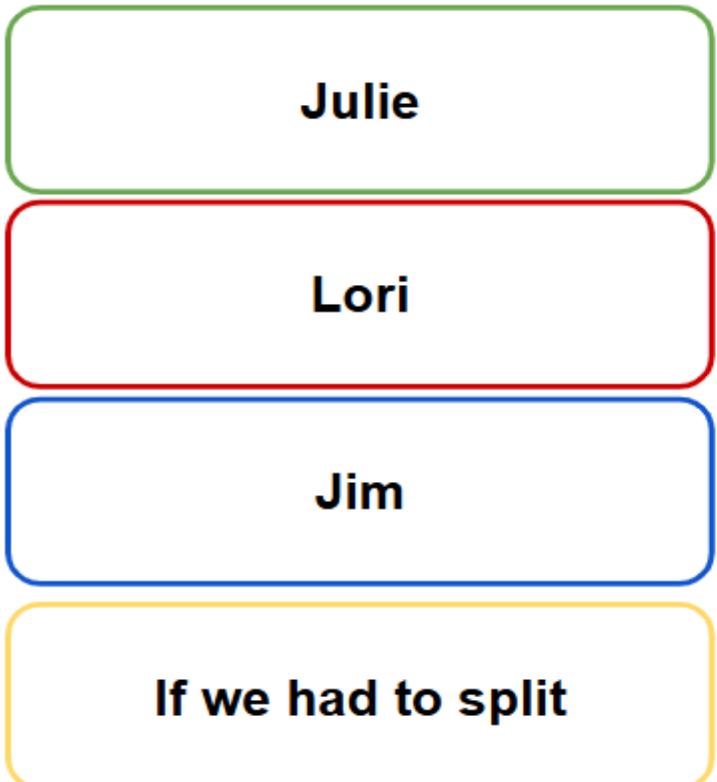
Create a P-Circle



Perspective = a point + a view

From what or whose point of view must I look at a good lunch sandwich? Create a P-Circle of a good lunch sandwich (for today from local deli)

32



P-Circle Move – Construction Site Challenges

(Planning Stage)

33

Construction Site Challenges

Purchasing

Getting the right service vendors there at the right time for the right cost (with limited experience doing so!)

Site Leadership

Preventing scope creep and overruns, ensuring safety, communications, etc.

Maintenance

Capacity, safety of technicians in dynamic environment with leased equipment, quality control, etc.

EHS

Regulatory compliance, safety, establishing can't miss messaging awareness, etc.

Customers

Safe foot traffic patterns, free-flowing incoming and outbound freight, etc.

Five Questions Playbook for High Impact Adaptable Thinking



With X being anything

1. **What is X?**
2. **What is X part of and what are its parts?**
3. **How are the parts of X related?**
4. **What do I see when I zoom into the relationships of X?**
5. **From what or whose point of view must I look at X?**

You do not need to ask these questions about the same thing, though you could. You could ask the five questions looking at five different things.

OSHA Prevention Videos (v-Tools) Script

Vehicle Back-Over

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When a vehicle on a construction site has an obstructed view to the rear, OSHA's standard requires employers to provide that vehicle with a working back-up alarm, or a spotter on site to tell the driver when it is safe to back up.

Other OSHA recommended safety solutions: (1) cameras; (2) proximity detection systems; (3) tag-based systems; (4) internal traffic control plans.

Administrative and Engineering Hazard Controls

Adaptive Thinking Output-thinking in systems sees more!

36

What we saw

Saw exactly where the project would activate additional OSHA regulations

As the expansion goes, so goes the business; project is confirmed to require priority shuffle or additional capacity, etc.,

The expansion includes traffic, construction, the creation of a dynamic environment, increased potential for injury, can't miss messaging with adaptable communications

The construction will create an environment of risk that will need managed

Need formalized and active role of leadership and EHS oversight of projects.

Collective Stakeholder challenges of customers, BWC rates, OSHA, permit inspection, company brand, employees of vendors and employees-close gaps/address issues and implement hazard elimination/control.

Learned from

Is/Is not list

Is/Is not list
Zoom out

Zoom in

Part party!

RDS Barbell

P-Circle



We thought we were biased. Turns out we were more biased than we thought!

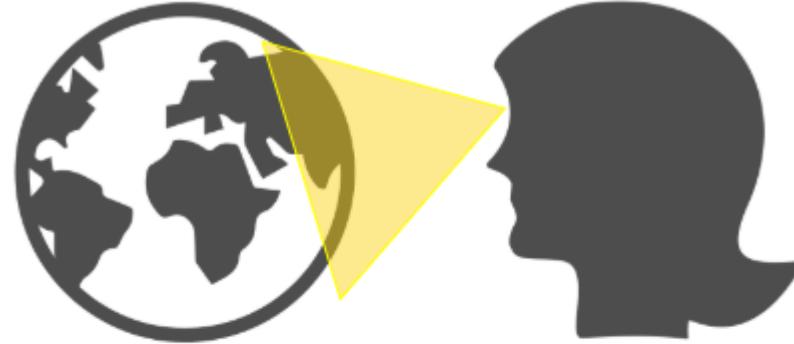
37



Reality



You



Mental Model

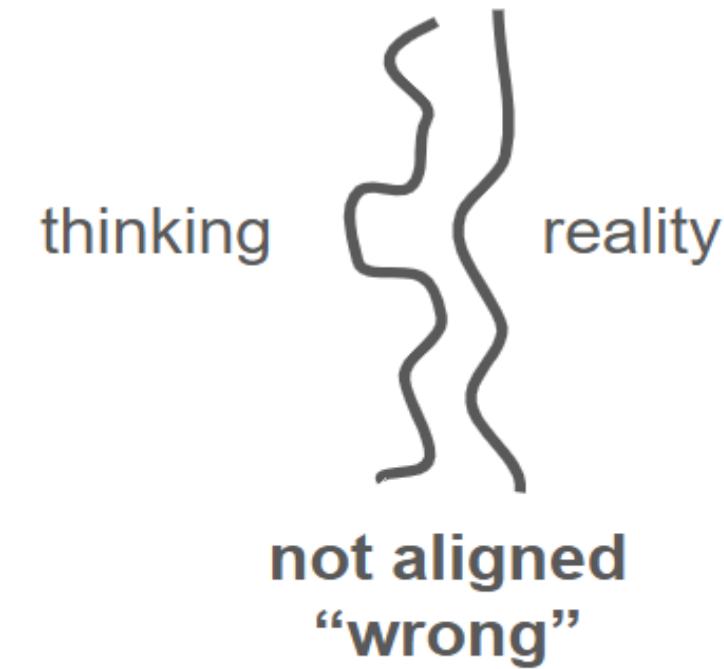
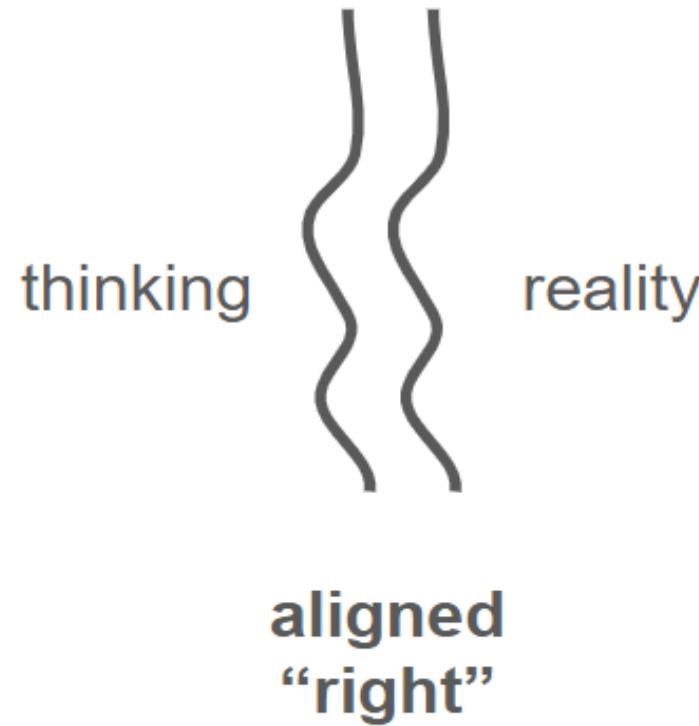
Reality

You

Unaware of
Reality Bias

Aware of
Reality Bias

LOVE REALITY.



Transform Your Department, Process, or Organization And Portage County!

1. Rely on the 5 Questions with regularity
2. Be always aware of mental models
3. Love reality

**Achieve success by
adopting a higher level of
thinking, engaging, and
collaborating!**

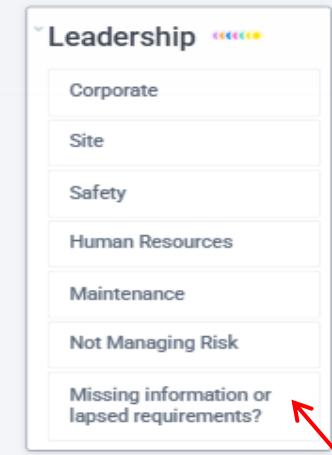
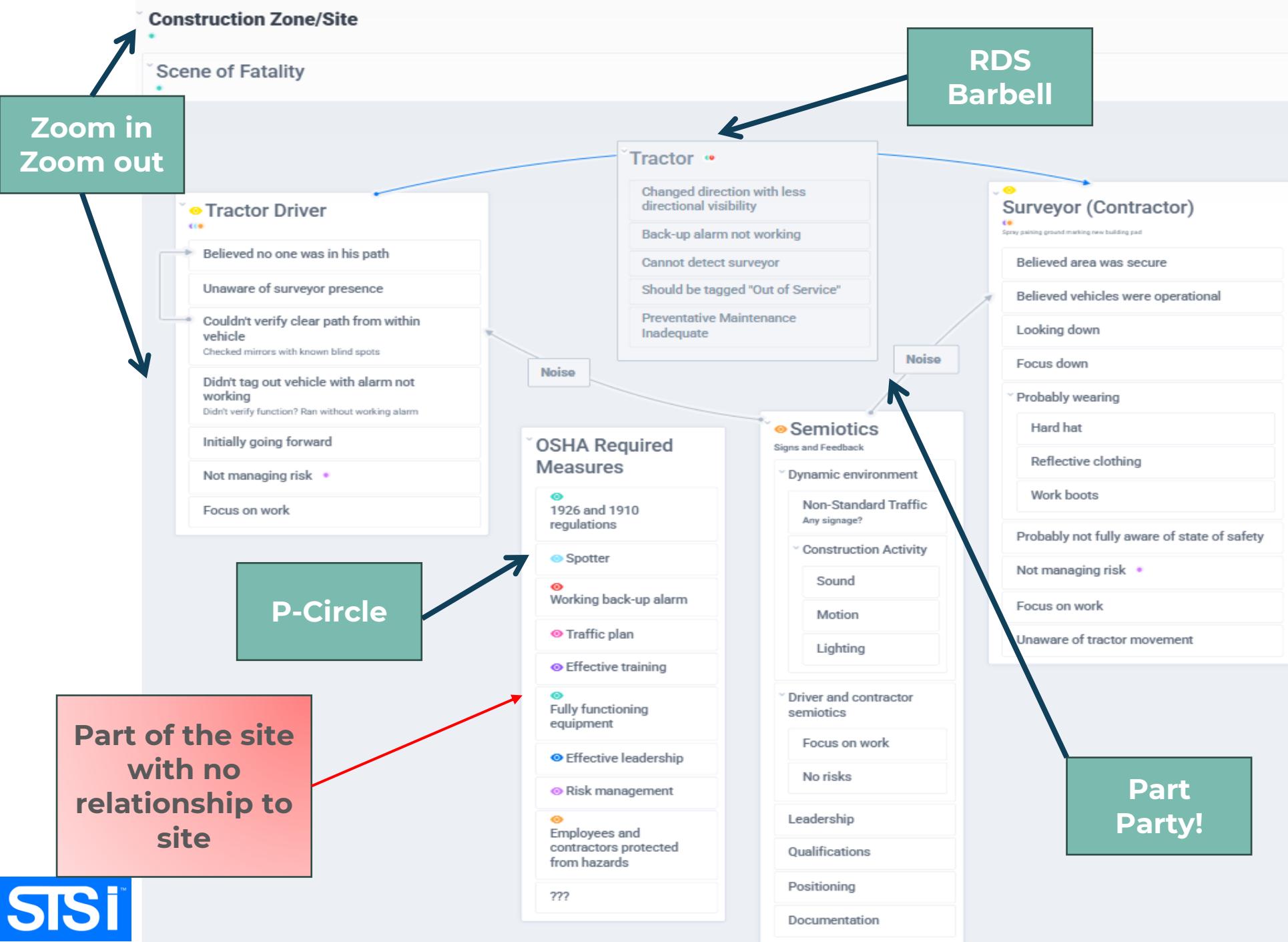
39



How to improve adaptive thinking skills.

Think quicker, smarter, more deeply, more accurately

Good Thinking-Get Better	Deep & Fast Thinking-Know How To
Identifying Things	Create Is/Is Not Lists
Identifying Parts of a System	Zoom In/Zoom Out Have a Part Party!
Seeing Connections (Relationships)	Zoom into Relationships, RDS Barbell
Perspective Taking	See Own Bias, Create P-Circles
Doing a Move	Mash Moves
Doing it Alone	Do it in a Group
Awareness	Practice and Use
Conversing	Conversing with DSRP Mapping
Fact Finding	Love Reality



No active relationship to zone

Semiotics: Self-Managed Risk

42



Lori Fisher Blog on Semiotics
How Decoding Messages From Your Environment
Can Foster Agency and Self-Management Risk
Practices

THANK YOU

Please complete this anonymous 6 question survey and help us get better!



Contact information for help executing and integrating these principals!

Lori Fisher

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www.STSI.PRO

*High-impact measurable systems thinking, easy to implement.
The future is human.*