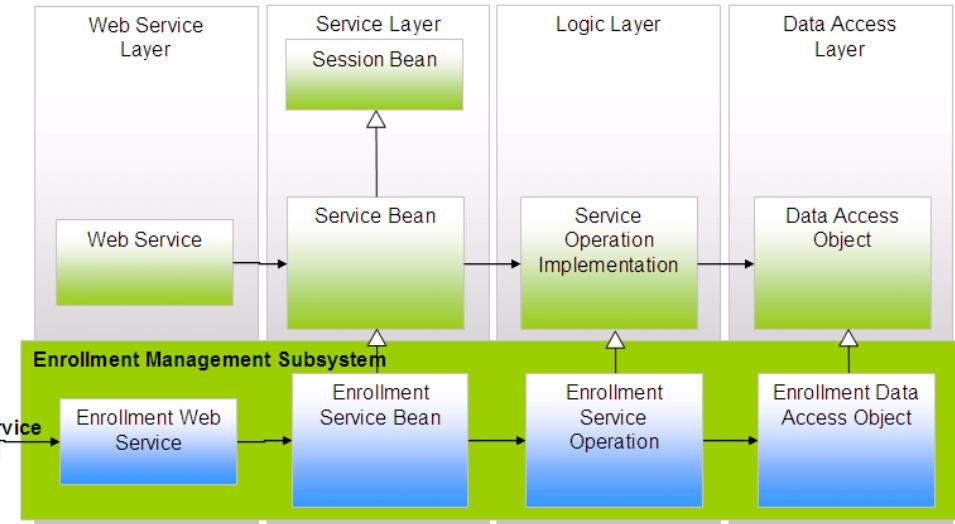
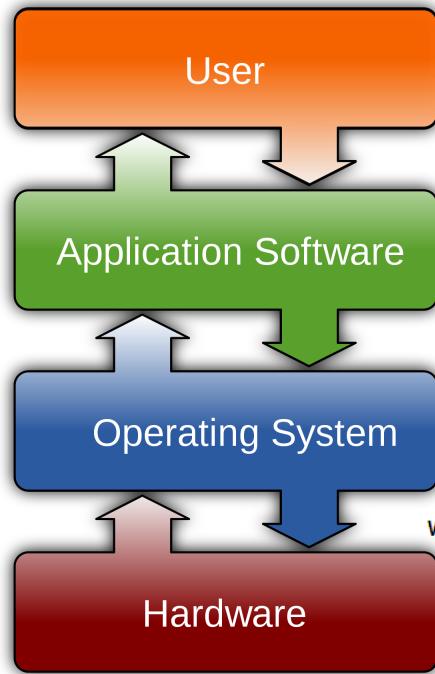
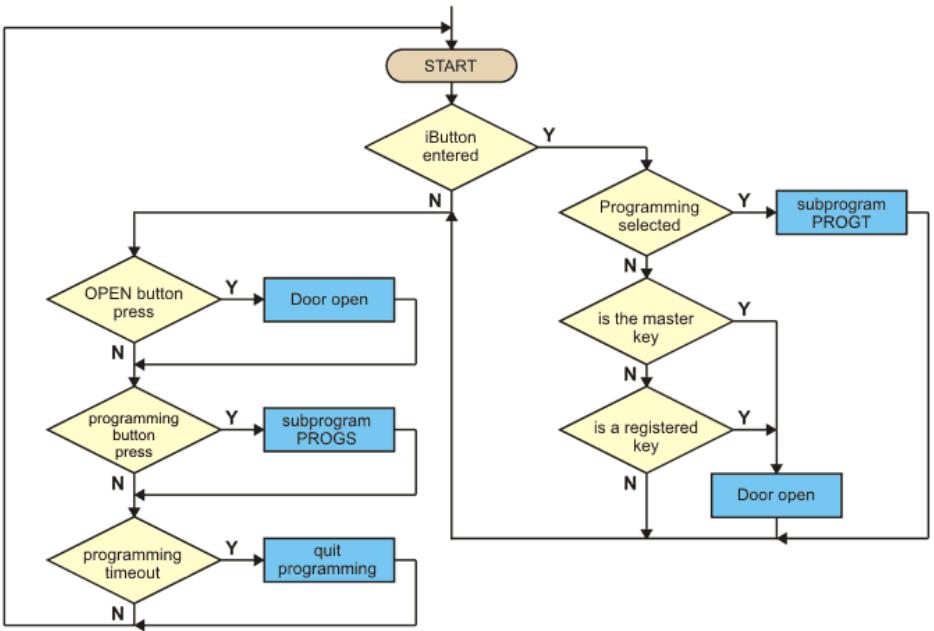


So You Think You Might Be an Architect

Sonya Natanzon



https://www.modernanalyst.com/Resources/BusinessAnalystHumor/tabid/218/ID/3876/Software_Architecture_Recommendation_or.aspx







About me

Software engineer ->
architect

Team lead

Healthcare vertical

“Who in the world am I? Ah, that’s the great puzzle!”

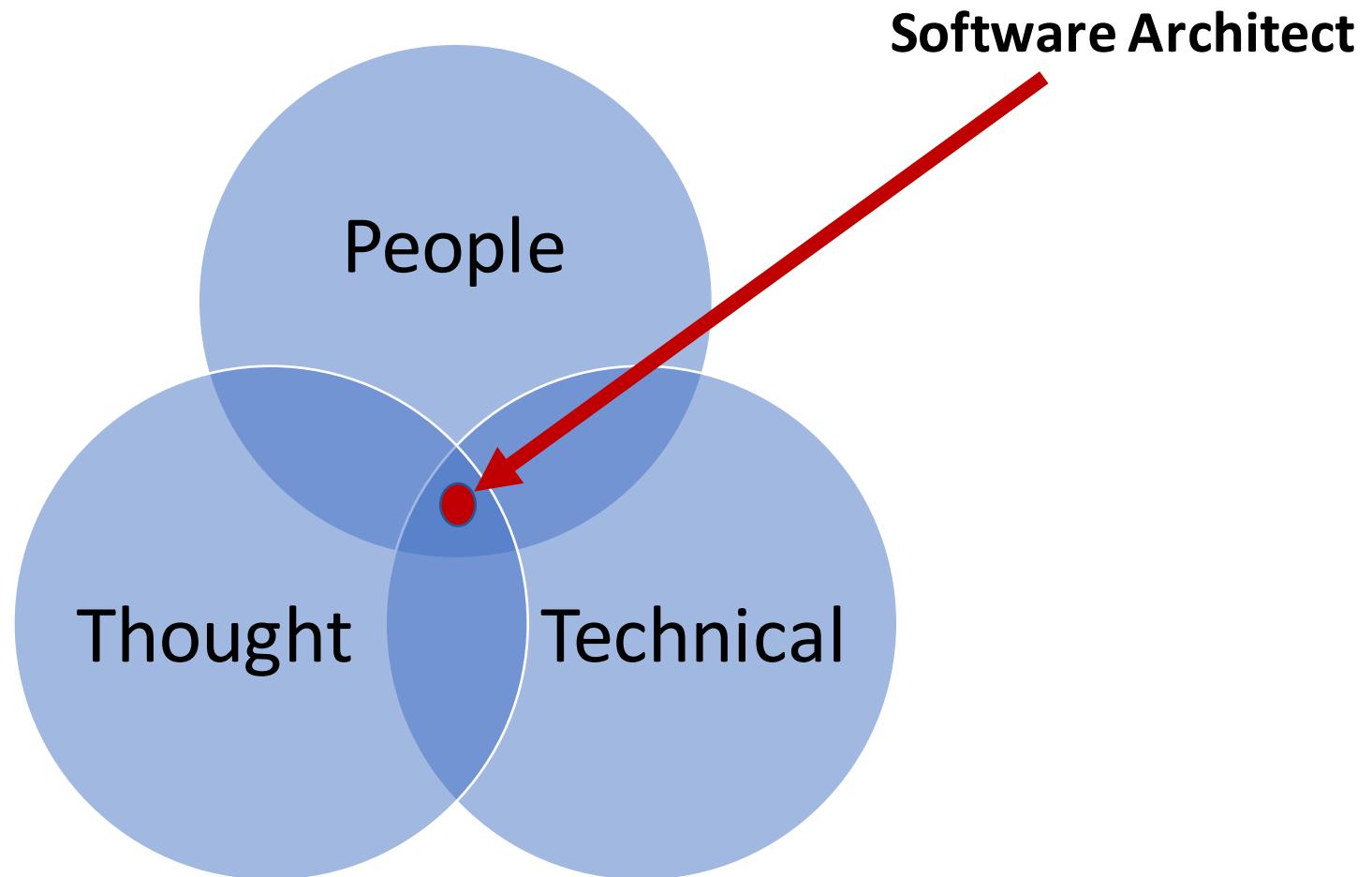
— Lewis Carrol, Alice in Wonderland





LEADERSHIP

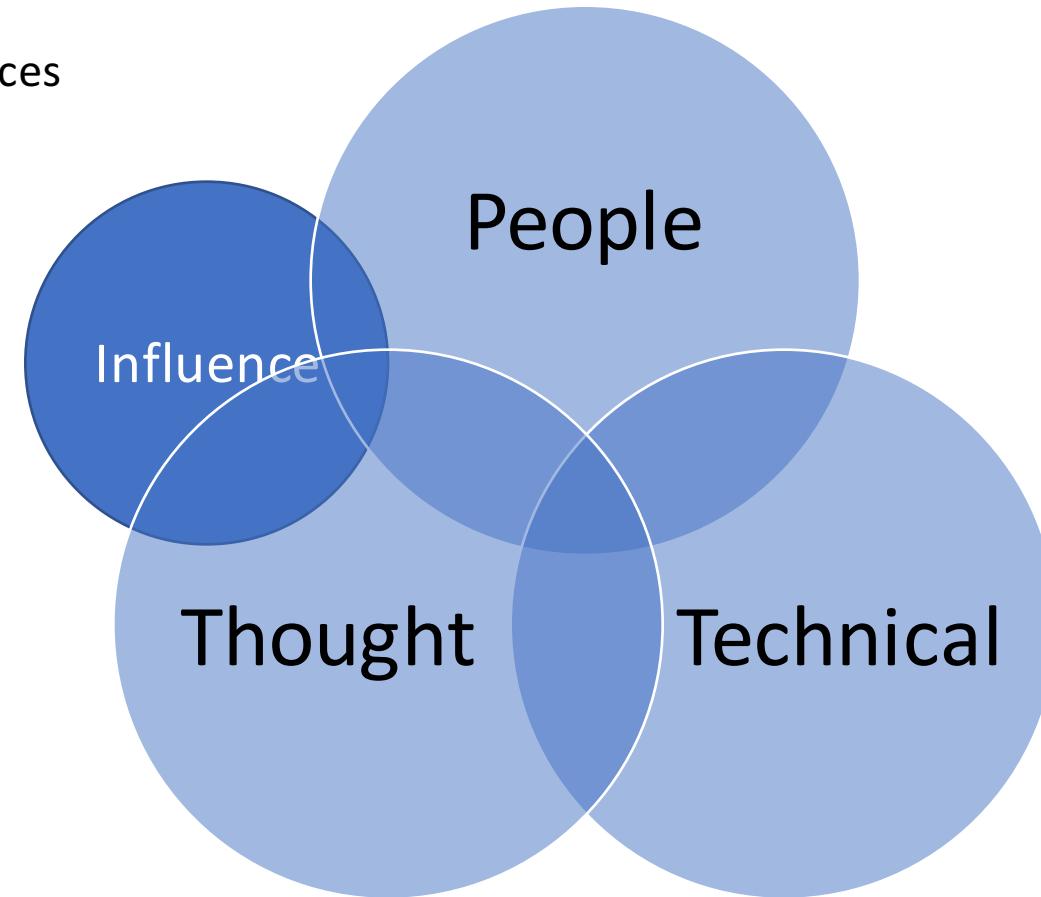
"A leader is a man who can adapt principles to circumstances."



People Leadership

*“A leader without followers is
simply a man talking walk.”*

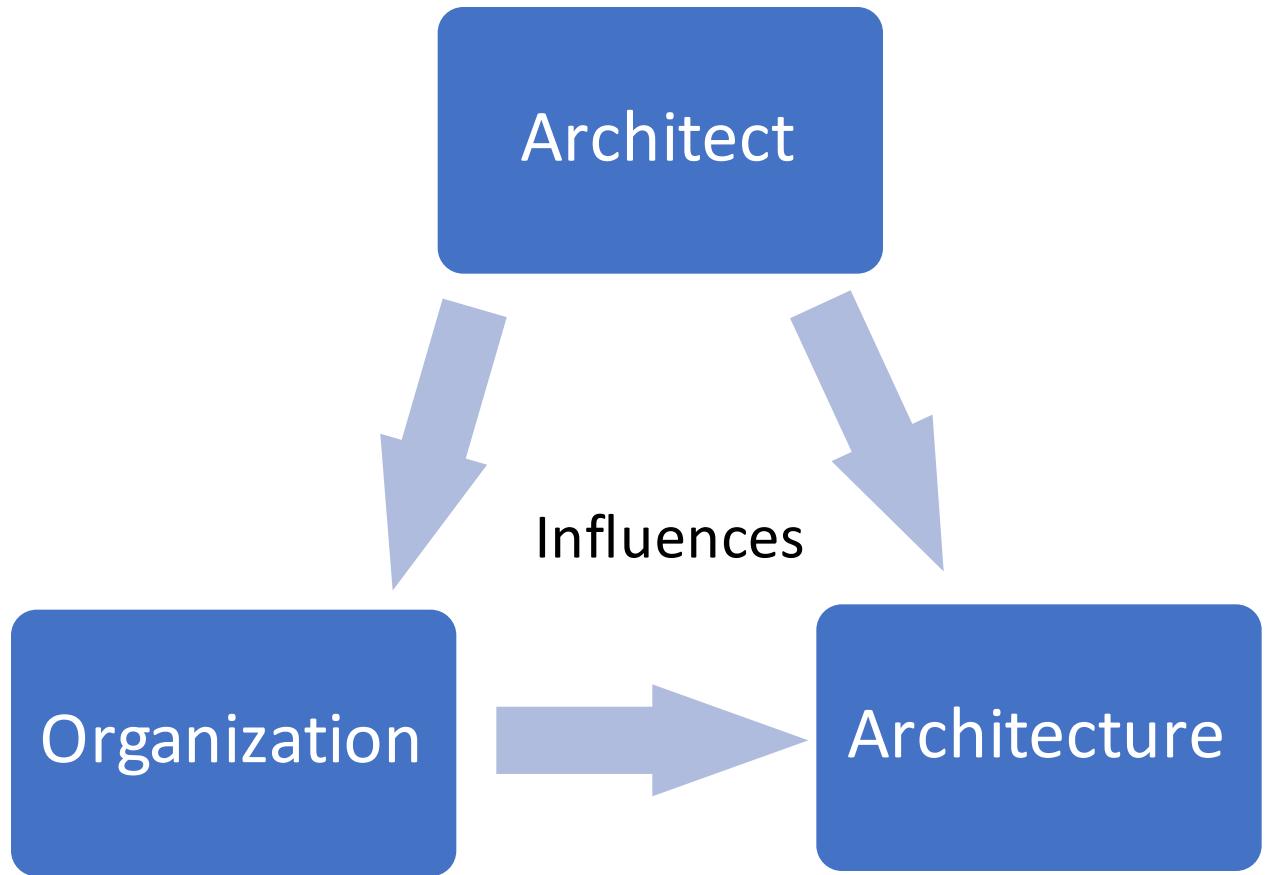
--Various Sources



Conway's Law

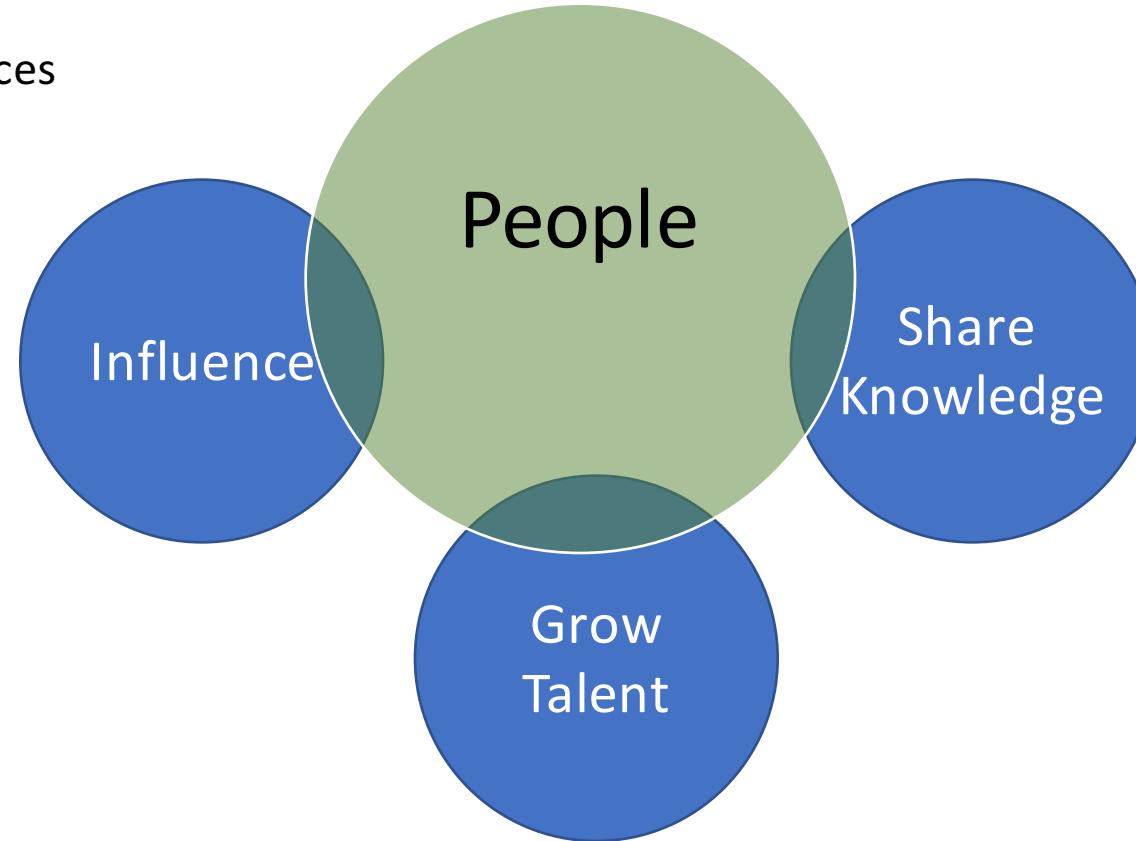
Organizations which design systems ... are constrained to produce designs which are copies of the communication structures of these organizations.

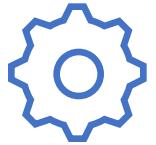
— M. Conway



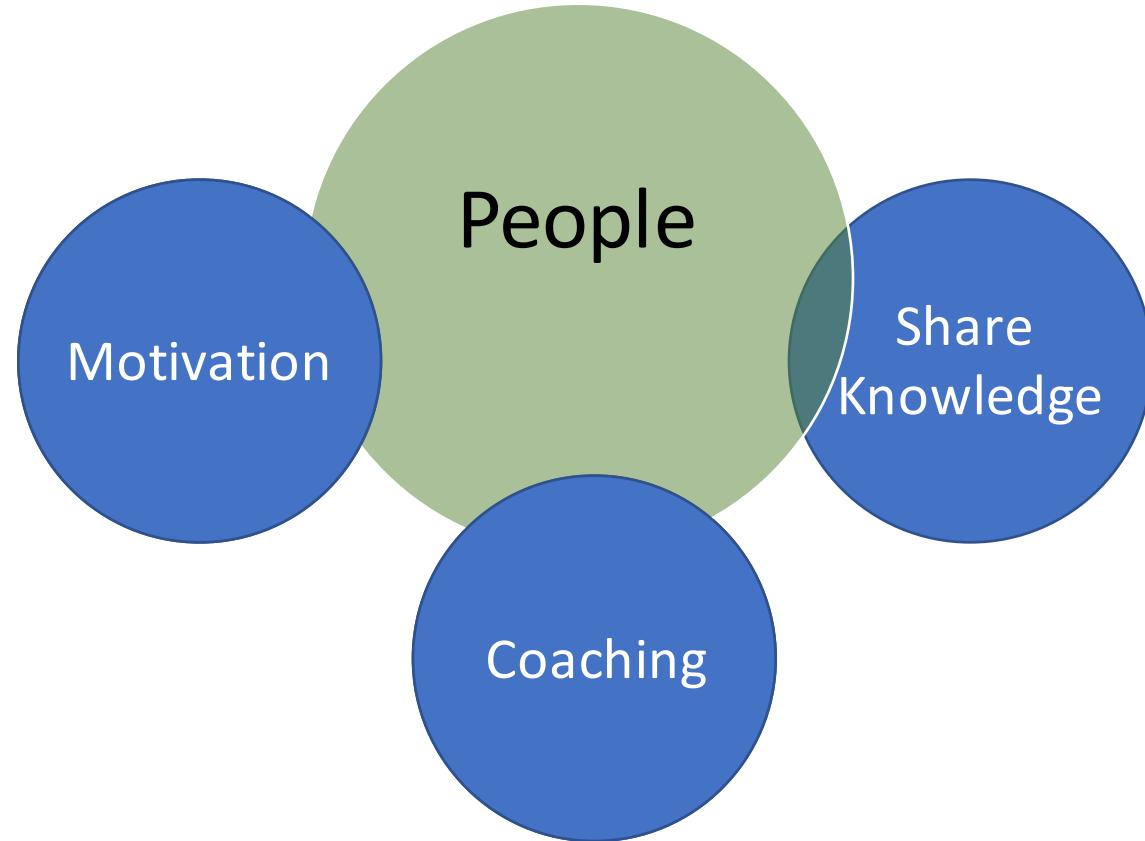
*“A leader without followers is
simply a man talking walk.”*

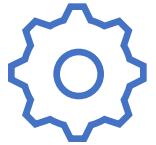
— Various Sources



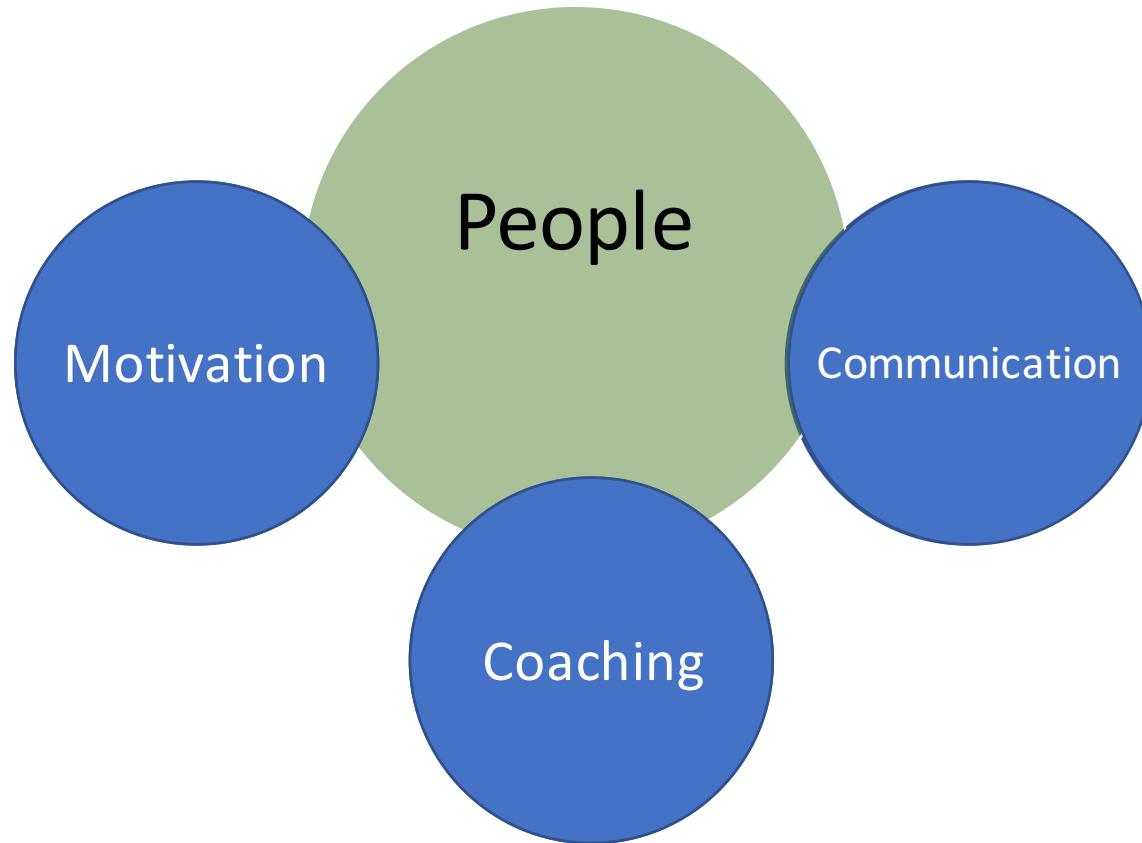


Skills





Skills



The Four Immeasurables

Loving Kindness

near: selfish love

far: ill will

Compassion

near: pity

far: cruelty

Empathic Joy

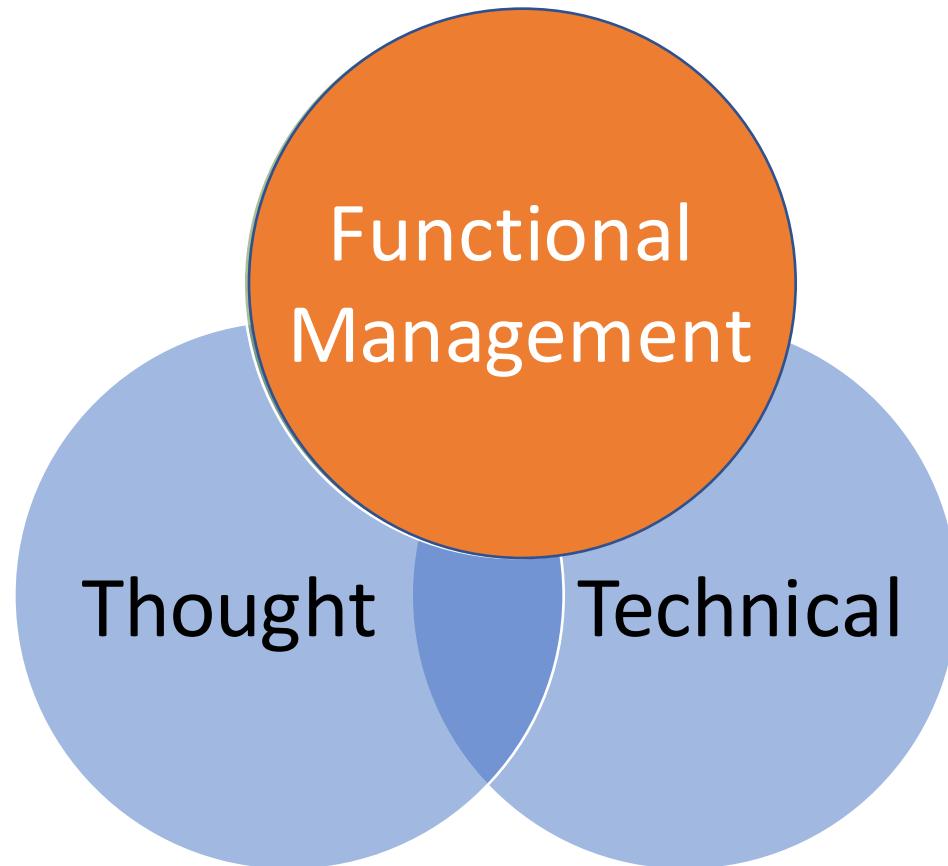
near: blind euphoria

far: jealousy

Equanimity

near: indifference

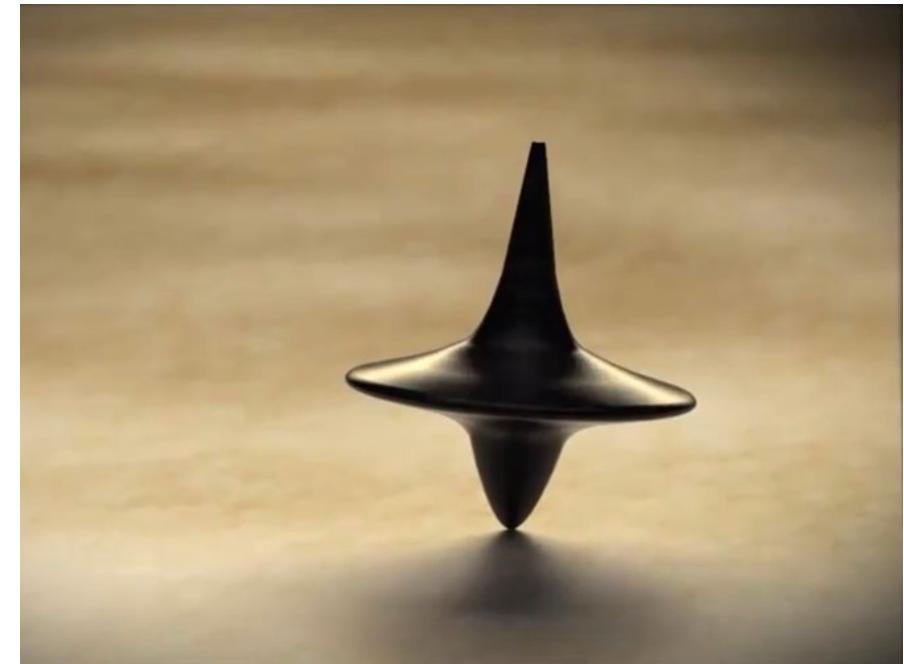
far: paranoia



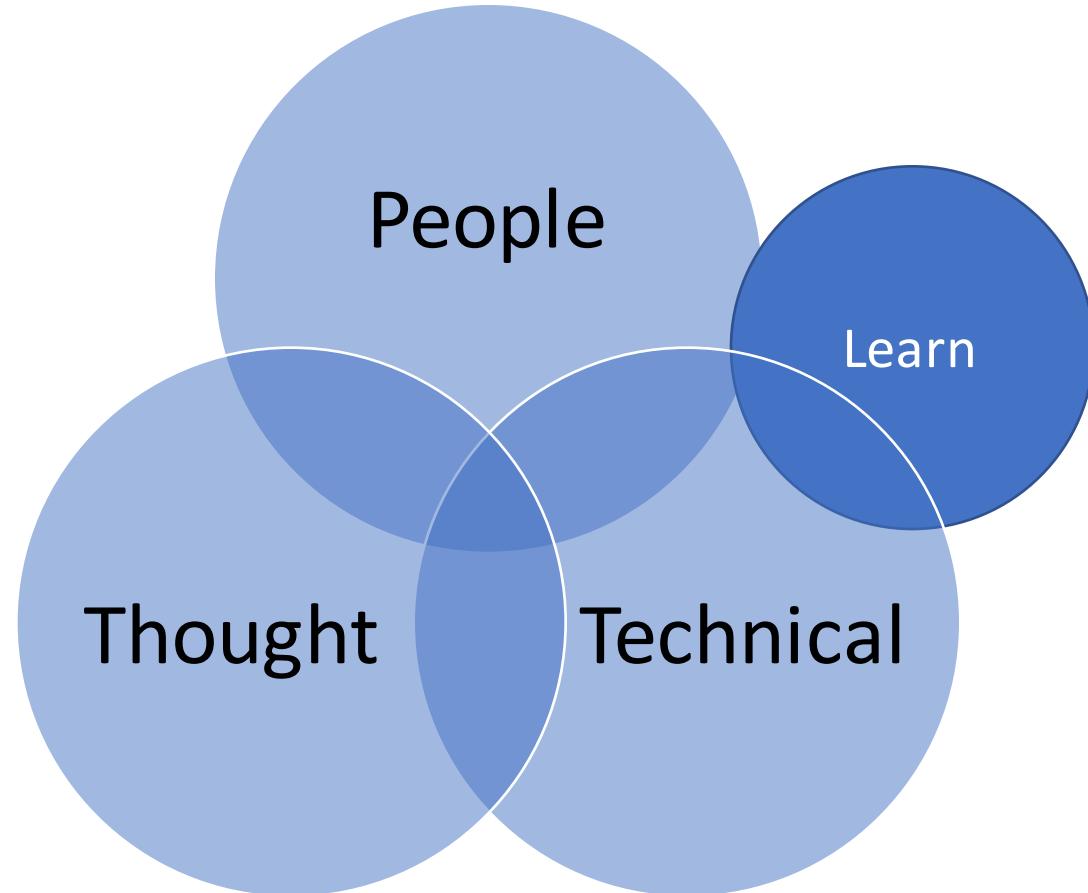
Functional
Management
influence

Functional
Management

People
Leadership
influence

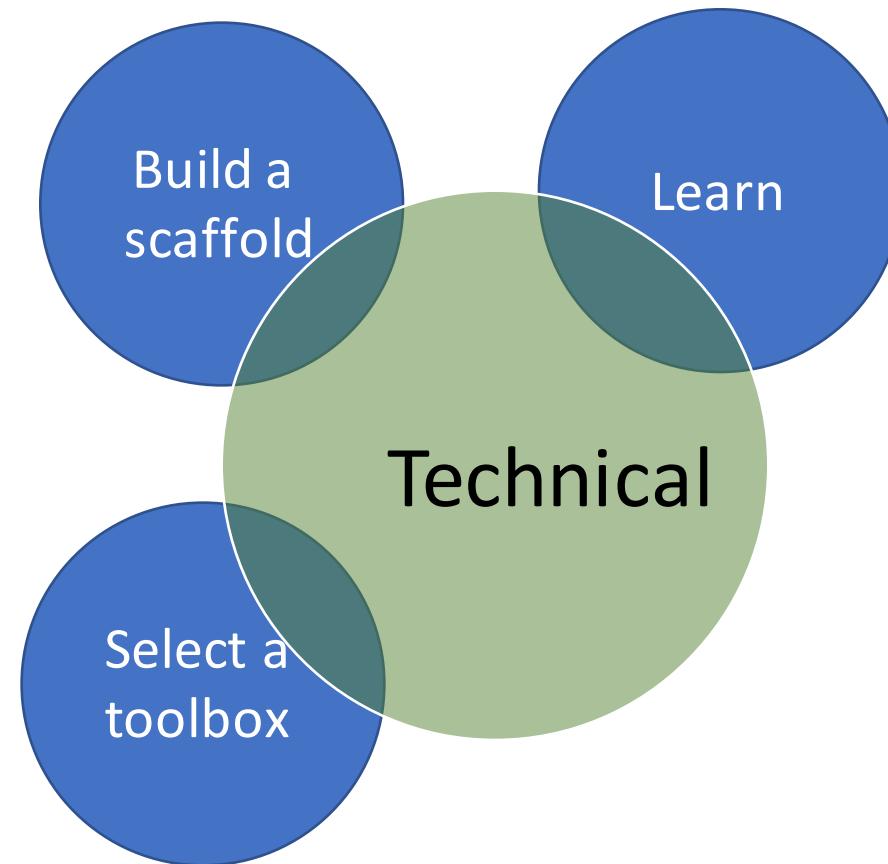


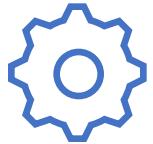
Technical Leadership



“Architecture is about the important stuff. Whatever that is.”

— Ralph Johnson

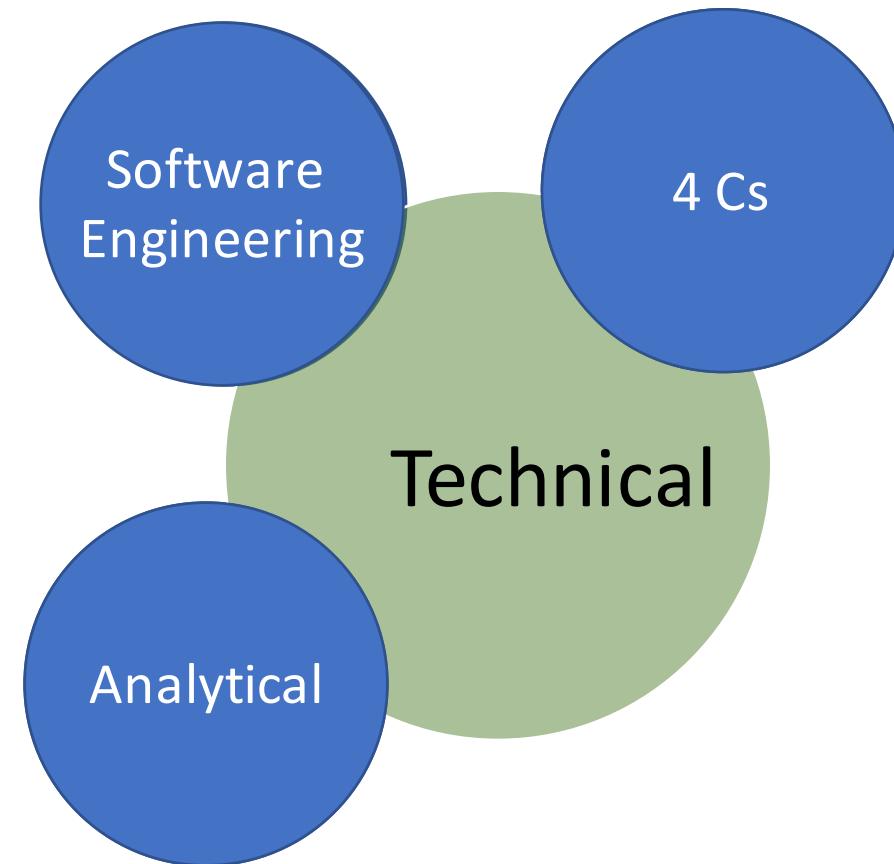


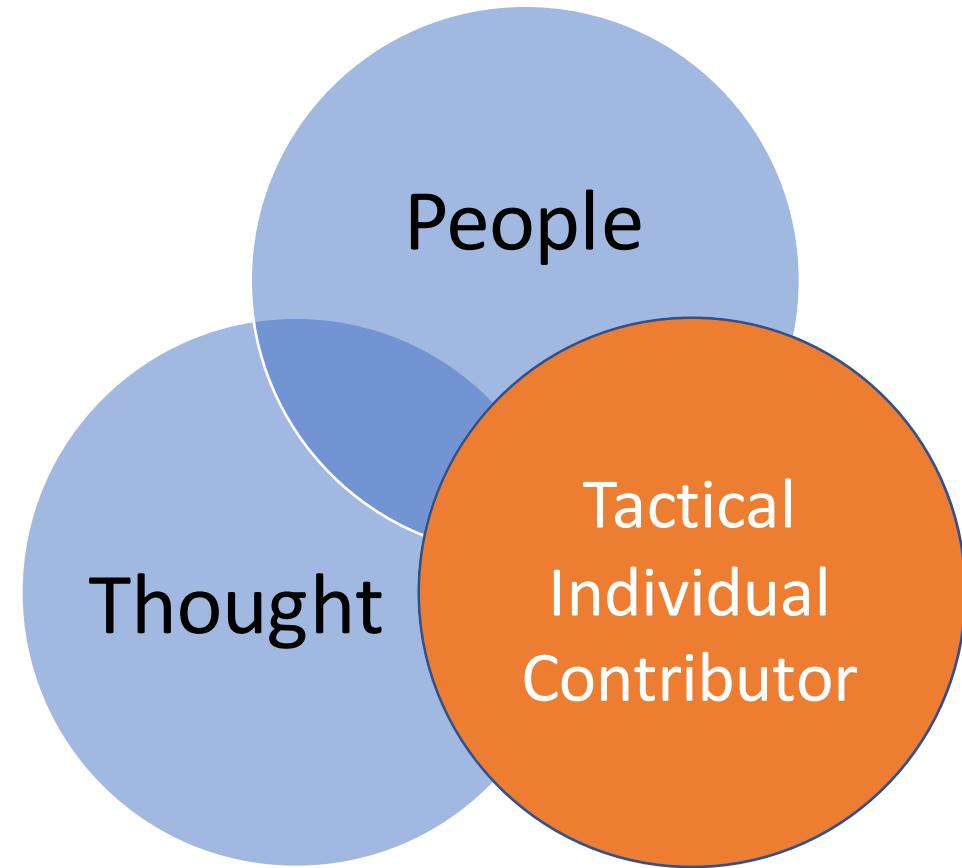


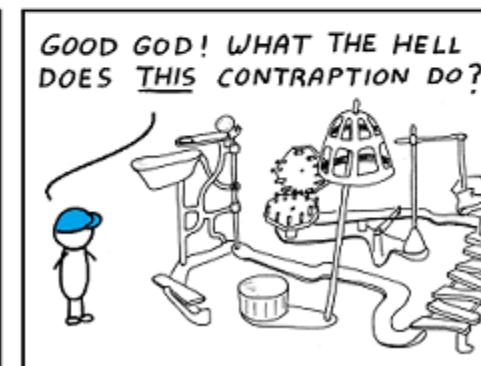
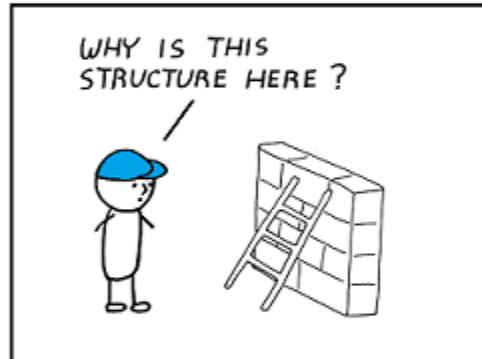
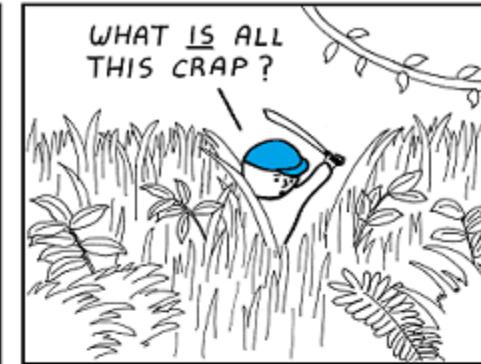
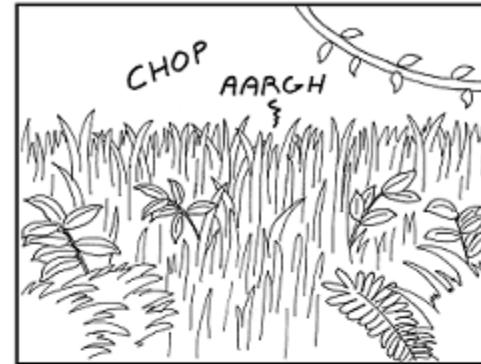
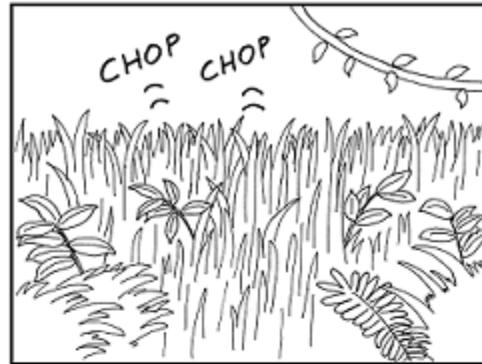
Skills

"All I Really Need To Know I Learned in Kindergarten."

— Robert Fulghum

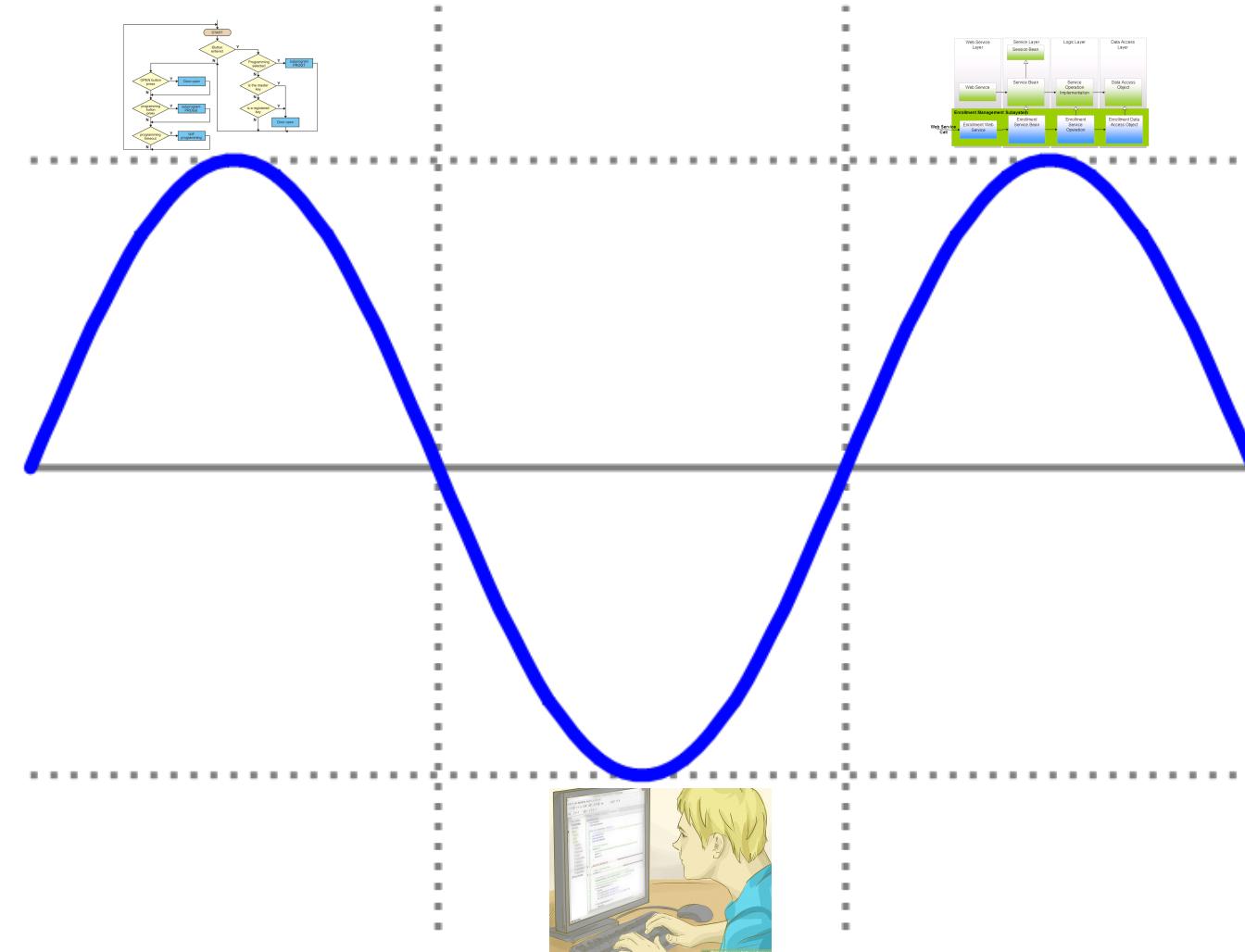






<https://abstrusegoose.com/432>

I hate reading
other people's code.



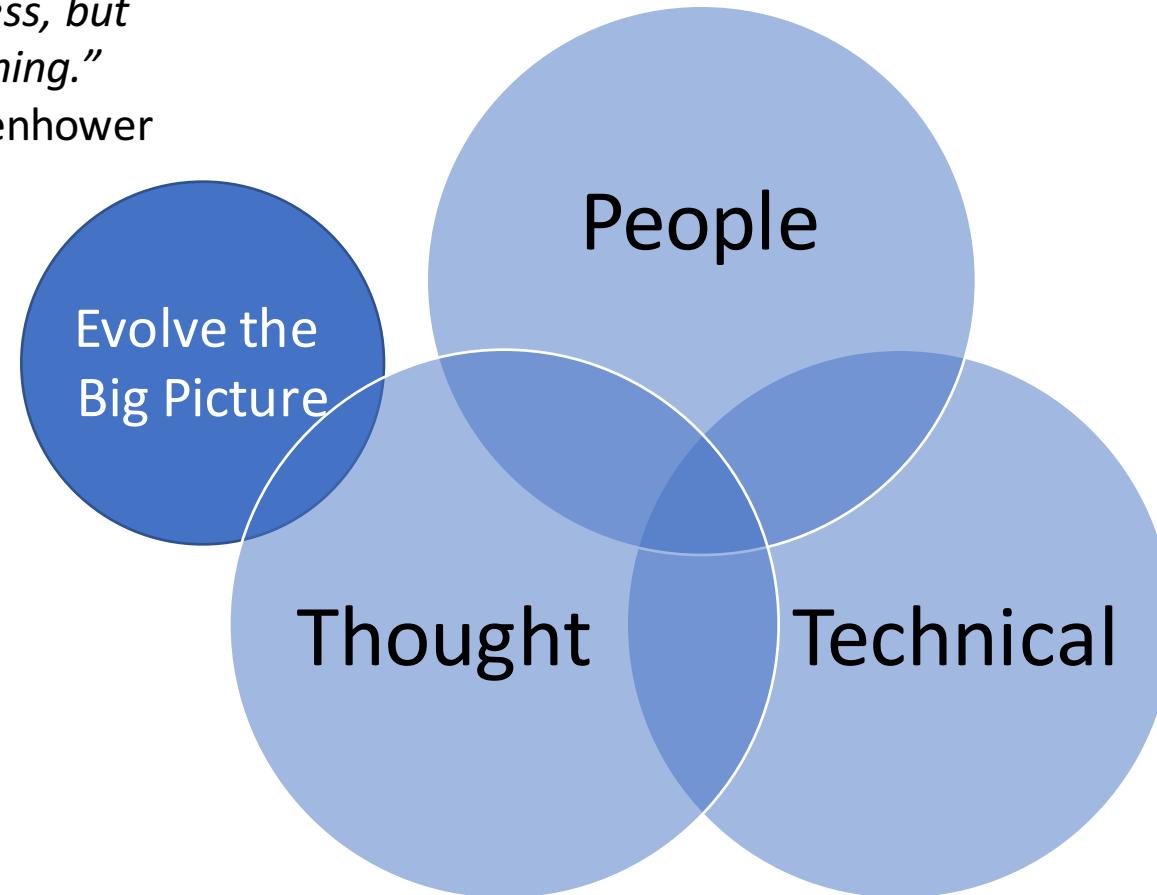
1. Proofs of Concepts

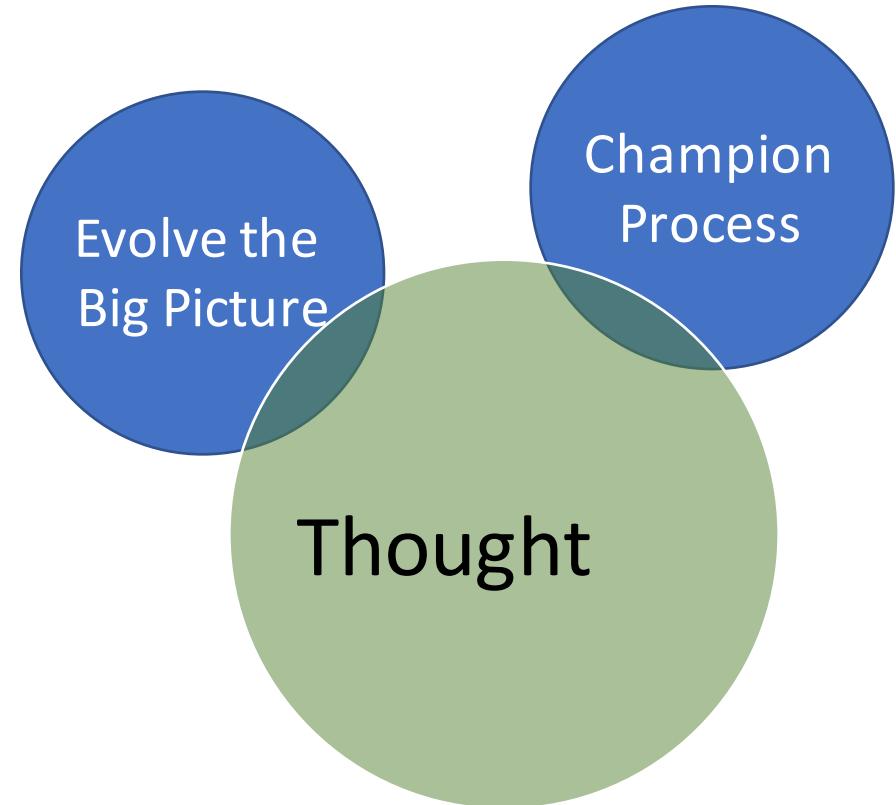
2. Pets

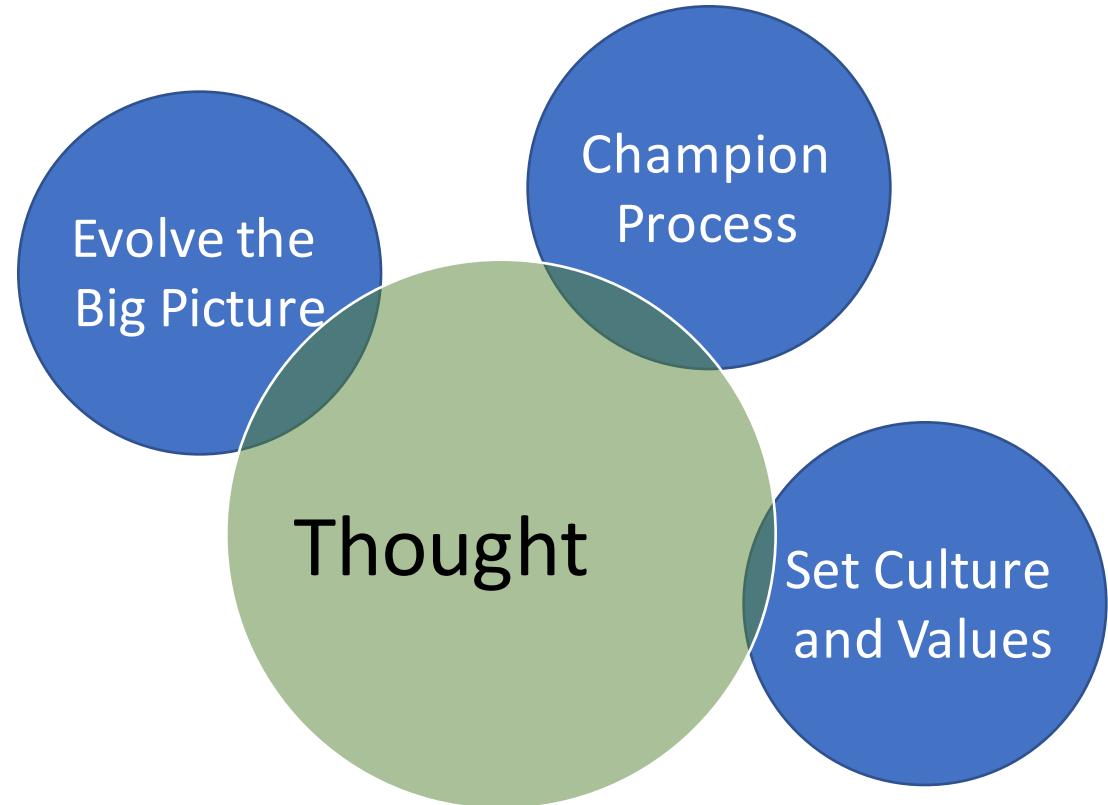
3. Project Rescues

Thought Leadership

*“Plans are worthless, but
planning is everything.”*
— Dwight D. Eisenhower

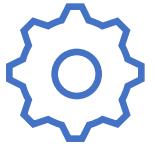




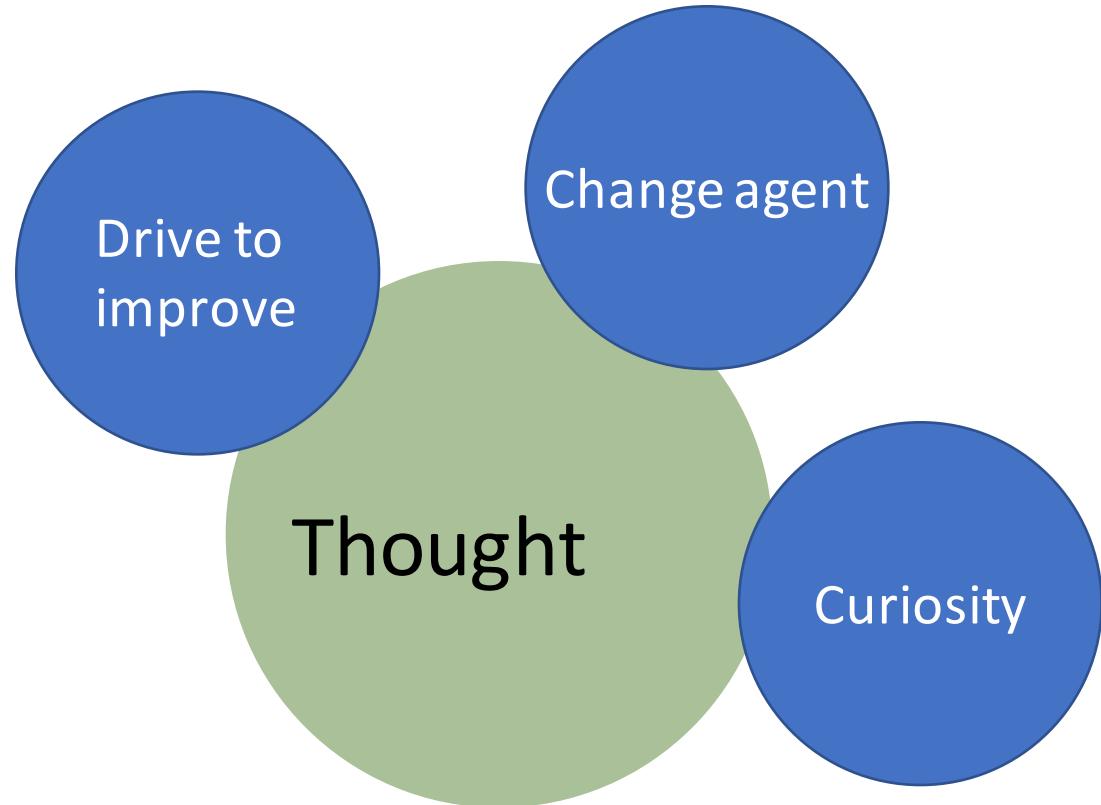


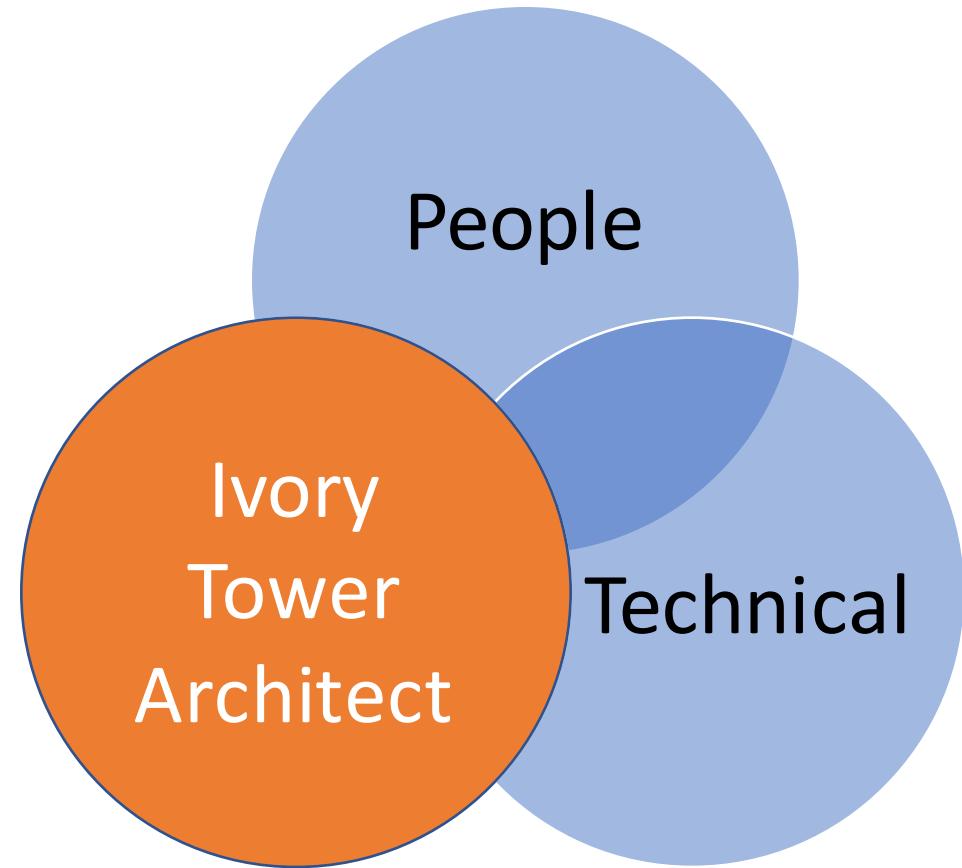
“Culture eats strategy for breakfast.”

— Peter Drucker



Skills







WHAT ARE YOU WORKING ON?

TRYING TO FIX THE PROBLEMS I
CREATED WHEN I TRIED TO FIX
THE PROBLEMS I CREATED WHEN
I TRIED TO FIX THE PROBLEMS
I CREATED WHEN...



<https://xkcd.com/1739/>

Problem Definition

- Problem statement
- Supporting analysis
- As-is documentation (diagrams!)



*"Would you tell me, please,
which way I ought to go from
here?"*

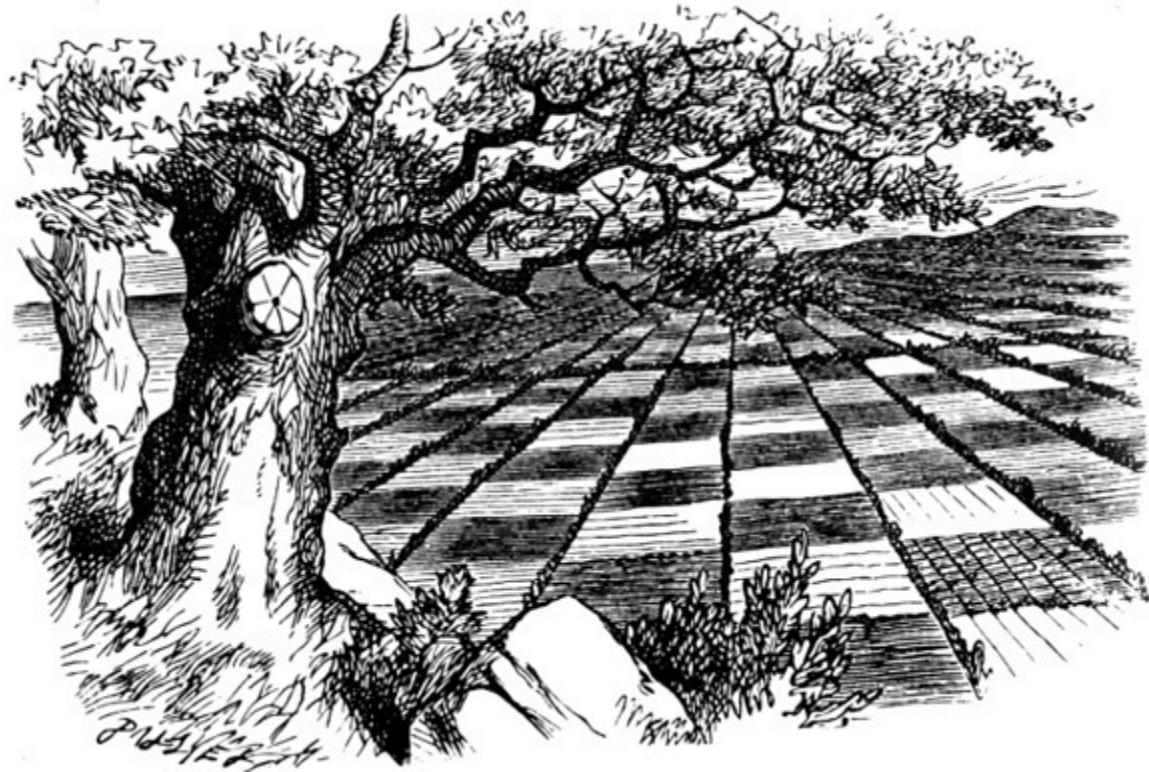
*"That depends a good deal on
where you want to get to," said
the Cat.*

--Lewis Carroll, Alice in
Wonderland

Problem
Definition

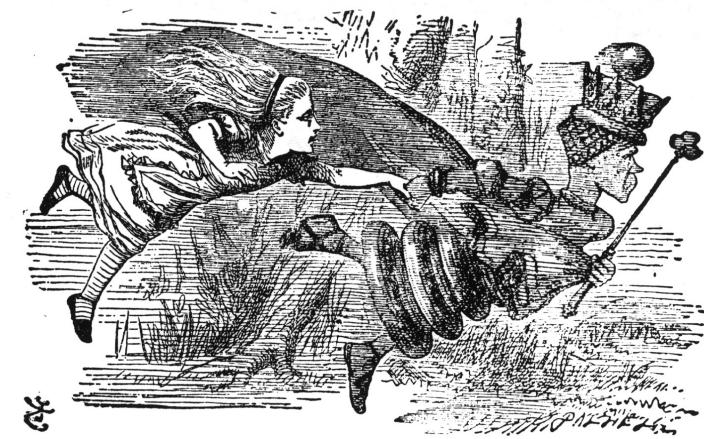
Solution Design

- Models and diagrams!
(To be documentation)
- Technology selection
- Proof of concept
- Ubiquitous language





- API Definitions, schemas, data models - Scaffold
- Production grade code
- Changes to everything done in the previous phase(s)

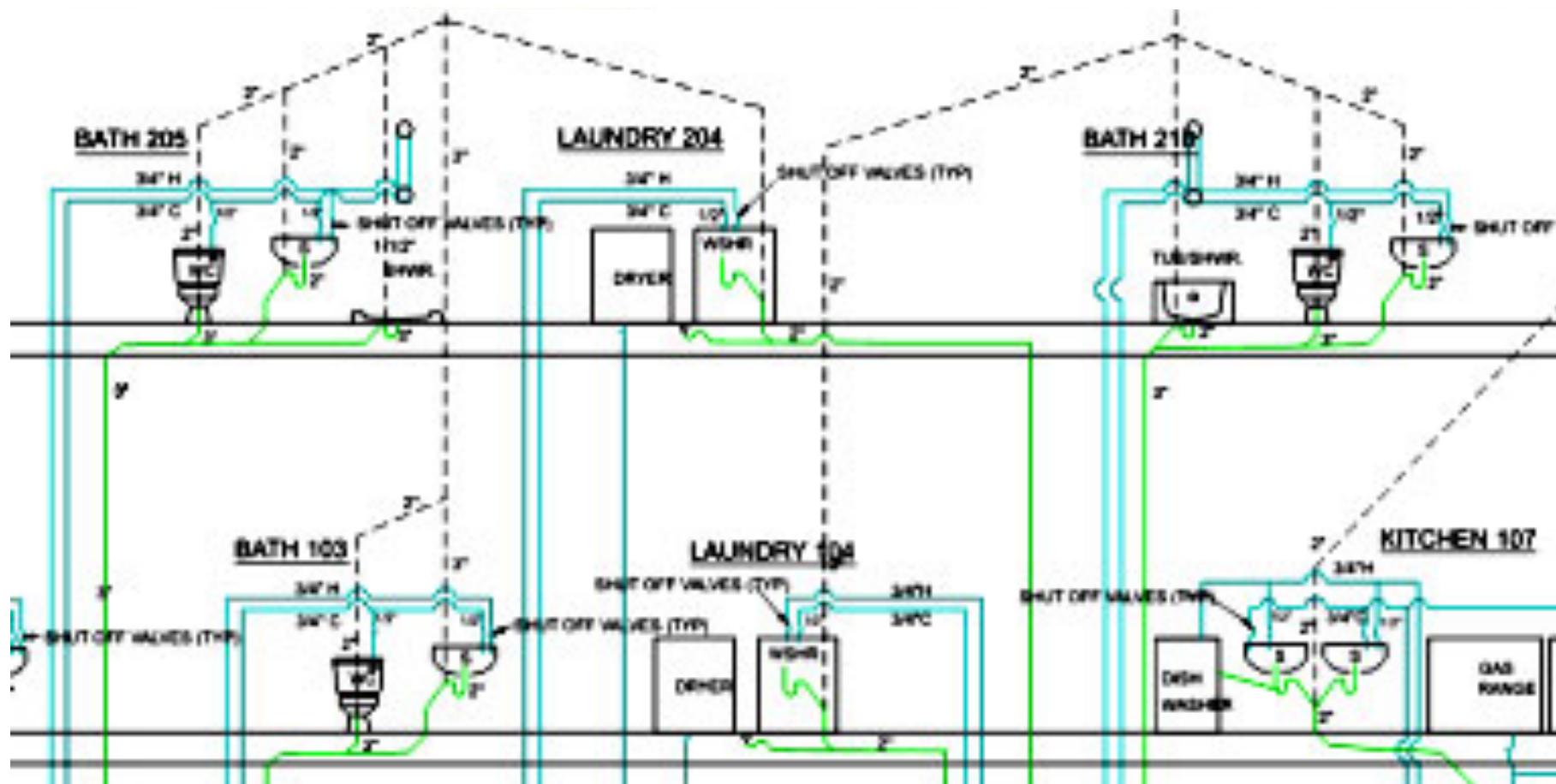


“The only constant in life is change”

--Heraclitus



Making the Invisible Visible



Summary

Leadership

- People
 - Influence
 - Share knowledge
 - Grow talent
- Technical
 - Learn
 - Build a scaffold
 - Select a toolbox
- Thought
 - Evolve the big picture
 - Champion process
 - Set culture and values

