

Lecture slide topics for today/tomorrow:

- Role of technology
- About teamwork

Practical:

About interviews



Other pushes for innovation: technology

Waves of innovation – the "Push"

AUSTRALIA

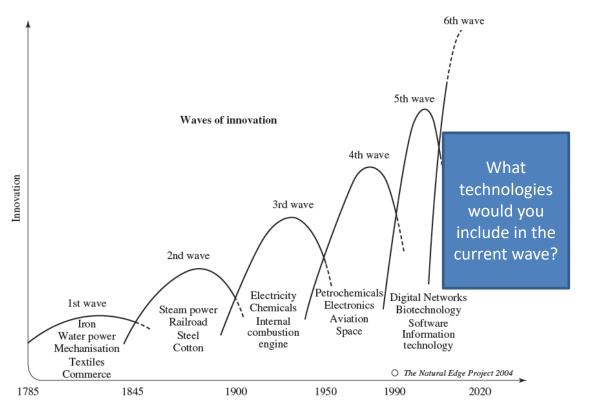
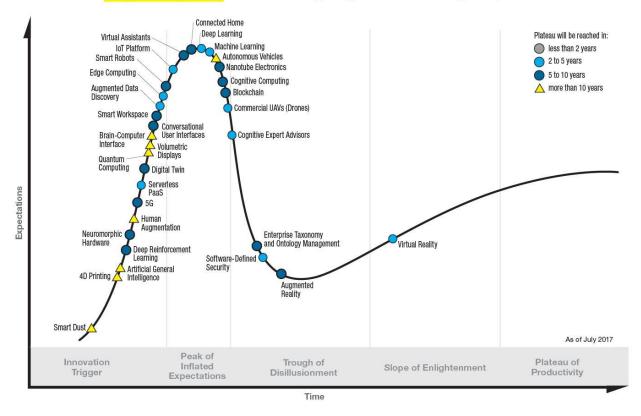


FIGURE 1.5 Waves of innovation throughout history.

Gartner Hype Cycle for Emerging Technologies, 2017





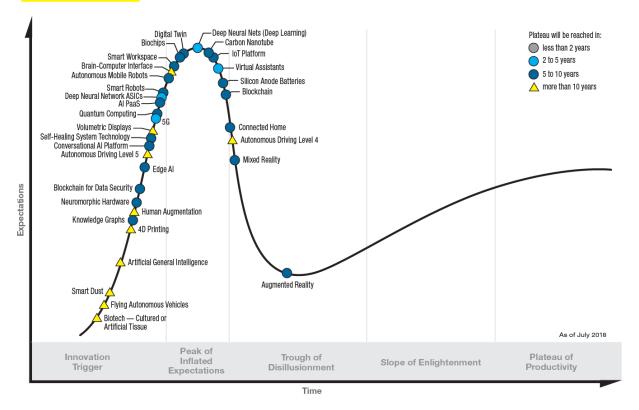
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Hype Cycle for Emerging Technologies, 2018





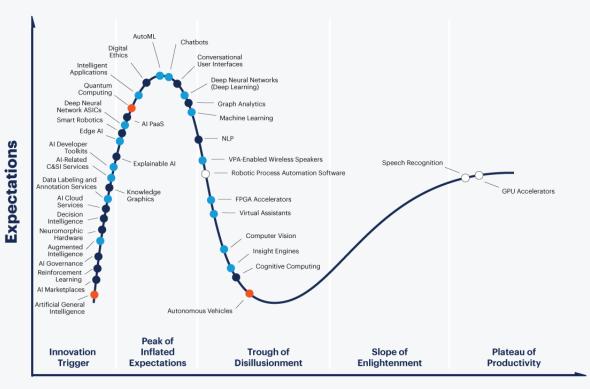
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Gartner Hype Cycle for Artificial Intelligence, 2019





Time

Plateau will be reached:

Oless than 2 years

Obsolete before plateau

As of July 2019

As of July 2019



About Teamwork and People

CP1403
Design Thinking



Topics

- Learning tasks
- Requirements for teamwork
 - Team value, norms and culture
 - Team communication and collaboration
 - Decision making and conflict resolution
 - More details in readings ("Creating a team culture" and "Conflict Handling")
- Project Management (not today)
 - Was scheduled for this session but moved to the end of the course



Readings

- A tip for effective meetings: Always be capturing <u>http://www.gv.com/lib/a-tip-for-effective-meetings-alwaysbecapturing</u>
- SPRINT Chapter 2, pages 29 37



Activity (5 minutes)

- (Group of 5 students)
 - Sharing your experience of doing teamwork?
 - What is the best thing happened to you in your last teamwork experience?
 - What is the worse thing happened to your in your last teamwork experience?



Teamwork

- What is a team?
 - Teams are similar to social groups except that their membership is not necessarily based on affiliation or friendship, and they have a goal to achieve.
- Success through diversity.
 - Because all people are different, teamwork is an exercise in managing diversity. It is this diversity that is the source of the benefits and the difficulties of teams.
 - A good team benefits from the differences between people
 - A bad team suffers from these differences



Teamwork (successful teams)

- Broadly speaking, successful teams possess some general characteristics. These are:
 - A team atmosphere which is informal, comfortable, relaxed, involved and interested
 - Discussions involve all parties and remain focused on tasks
 - Tasks and roles are well understood
 - The team is self-conscious about its own operation



Teamwork (successful teams)

- Team members listen to each other
- When disagreement occurs, team members carefully examine the issues and seek to resolve them through consensus
- Criticism is frequent and frank, focused on team goals rather than individual characteristics
- There are few hidden agendas
- The leader does not dominate, with leadership moving between members as required



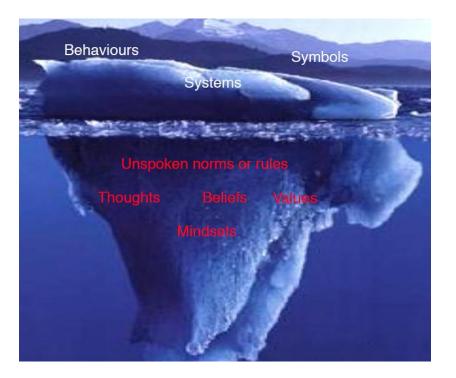
Synergistic Team

- A cohesive group of people with complementary skills, committed to a shared vision, value and behaviour for which they hold themselves mutually accountable.
- They are more than sum of their parts. They have the ability as a group to outperform even their best individual member.



Team Culture & Rules

 Team culture are the common vision, values, practices and behaviors all team members agreed on.



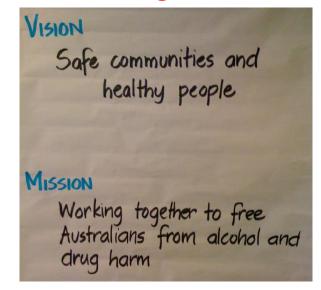


Team Culture & Rules

Shared vision

- Creating a clear and deep sense of purpose!
- Providing a "line of sight" for all team members so they !understand how they personally and collectively contribute!

Australian Drug Foundation





Team Culture & Rules

- Agreeing values, practice and behaviors
 - Identifying what we are not prepared to compromise as a team in achieving the shared vision
 - Agreeing what this looks like in action i.e. team member behaviours
 - Aligning practices to the vision and value



Different types of Team Culture





Team Cultures

- Innovative cultures are flexible and adaptable, and experiment with new ideas.
- Aggressive cultures value competitiveness and outperforming competitors:
- Outcome-oriented cultures emphasize achievement, results, and action as important values.
- Detail-oriented cultures are emphasizing precision and paying attention to details



Team Cultures

- Stable cultures are predictable, rule-oriented, and bureaucratic, aim to coordinate and align individual effort for greatest levels of efficiency.
- People-oriented cultures value fairness, supportiveness, and respect for individual right, "people are their greatest asset."
- **Team-oriented cultures** are collaborative and emphasize cooperation among members.



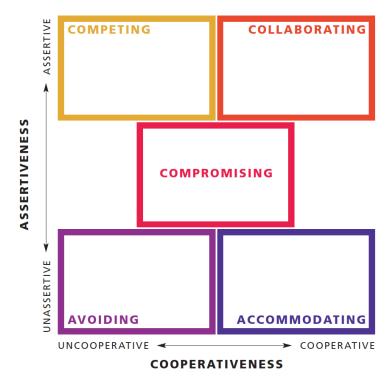
Team Conflict

- Conflict situations in which the concerns of two people appear to be incompatible
- We can describe a person's behavior in conflict situation along two basic dimensions:
 - assertiveness, the extent to which the individual attempts to satisfy his or her own concerns
 - cooperativeness, the extent to which the individual attempts to satisfy the other person's concerns.



Team Conflict

 These two dimensions of behavior can be used to define five methods of dealing with conflict.





Team Conflict Handling Mode - Competing

 Competing is assertive and uncooperative, a power-oriented mode.

 When competing, an individual pursues his or her own concerns at the other person's expense, using whatever power seems appropriate to win his or her position.

• Competing might mean **standing up for your rights**, defending a position you believe is correct, or simply trying to win.



Team Conflict Handling Mode - Competing

Skills

- Arguing or debating
- Using rank or influence
- Standing your ground
- Stating your position clearly
- Asserting your opinions and feelings.

- Appropriate situations in which to use this style
 - Quick action is required
 - Unpopular decisions need to be made
 - Vital issues must be handled
 - To protect your self-interests



Team Conflict Handling Mode - Collaborating

- Collaborating is both assertive and cooperative.
 - individual attempts to work with the other person to find a solution that fully satisfies the concerns of both.

 It involves digging into an issue to identify the underlying concerns of the two individuals and to find an alternative that meets both sets of concerns.



Team Conflict Handling Mode - Collaborating

Skills

- Active Listening
- Nonthreatening confrontation
- Identifying Concerns
- Analysing input



Team Conflict Handling Mode - Collaborating

Appropriate situations in which to use this style

- Have time and energy to come to a creative, integrative decision
- The conflict is of enough importance to warrant the necessary time and energy
- Vital issues must be handled
- When the issues are too important to compromise
- When merging perspectives
- When gaining commitment, improving relationships & learning
- When innovation and creativity is demanded



Team Conflict Handling Mode - Compromising

- Compromising is intermediate in both assertiveness and cooperativeness.
 - individual has the objective of finding an expedient,
 mutually acceptable solution that partially satisfies both parties.
 - seek a middle ground between competing and accommodating



Team Conflict Handling Mode - Compromising

Skills

- Negotiating
- Assessing value
- Finding a middle ground
- Making concessions

- Appropriate situations in which to use this style
 - Issues are of moderate importance
 - Equal power status
 - Strong commitment to resolution
 - As a temporary solution when you have time constraints



Team Conflict Handling Mode - Avoiding

- Avoiding is unassertive and uncooperative
 - individual does not immediately pursue his or her own concerns or those of the other person.
 - Avoiding might take the form of diplomatically sidestepping an issue, postponing an issue until a better time, or simply withdrawing from a threatening situation.



Team Conflict Handling Mode - Avoiding

Skills

- Ability to withdraw
- Using rank or influence
- Ability to leave things unresolved
- Ability to sidestep issues
- Sense of timing

- Appropriate situations in which to use this style
 - Issues are of low importance
 - Need to reduce tensions
 - Need to buy some time before making a decision
 - When you are in a position of low power



Team Conflict Handling Mode - Accommodating

- Accommodating is unassertive and cooperative
 - individual neglects his or her own concerns to satisfy the concerns of the other person
 - Accommodating might take the form of selfless generosity or charity, obeying another person's order when you would prefer not to, or yielding to another's point of view.



Team Conflict Handling Mode - Accommodating

Skills

- Forgetting your desires
- Ability to yield
- Selflessness
- Obeying orders

- Appropriate situations in which to use this style
 - To show reasonableness
 - To develop performance of others
 - To create goodwill
 - To keep the peace



Activity (10 minutes)

- (Group of 5)
 - Share your last experience of encountering and handling a conflict situation
 - Which of the 5 conflict handling modes you have used ?



Understanding People

- In order that human activities can be managed or directed, it is necessary to understand people!
- Far too often managers focus too much on the tasks to be done rather than the people who will do them
- As in most things, a balance is needed

"You can take a horse to the water, but you cannot make it drink!"

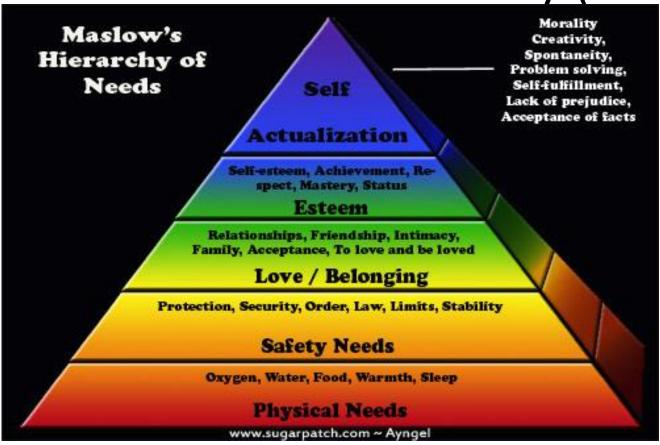


Maslow's Motivation Theory

Main ideas:

- Human behaviours are guided or motivated by a hierarchy of needs,
- The needs can be arranged in form of a pyramid,
- Each level is a pre-requisite of the next level up in the hierarchy,
- Once a particular need is satisfied, it cannot be served any longer as a potent motivator of behaviour.







- Physiological needs: food, sleep, shelter etc.
- Safety needs: personal safety, feel secure etc.
- Social needs: feel part of a group etc.
 - Allowing people to meet or communicate with their co-workers
 - Providing common places for people to communicate their ideas and work etc.
- Esteem needs: feel respected by other people
 - Need to make people feel that they are valued by the organizations
 - Public recognition of achievements is a simple yet effective way of doing this



- Self-actualization needs: personal development, personal growth etc.
 - Give people responsibility for their own work
 - Assign them demanding (but not impossible) tasks
 - Provide a training programme where people can develop their skills

What's your motivation of studying at Uni and how does it relate to Maslow's theory?



- It conveys a message of hope and growth
 - People can work to control their own destinies and naturally strive to achieve higher and higher needs
- Issues:
 - The viewpoint on motivation is exclusively based on personal aspects
 - It does not give adequate consideration to people as being part of an organization, a professional group or a culture, and getting fulfilment from group success
- Nevertheless, a manager should be aware of this well-tested theory



Herzberg's dual-factor Theory

- Main assumption: Difference set of factors lead to satisfaction/ dissatisfaction (dual continuums)
- Main ideas:
- Distinguish between motivational factors and hygiene factors
- Motivational factors:
 - Factors that can motivate people leads to satisfaction
 - Examples: achievement, recognition, responsibility, ...
- Hygiene factors:
 - Factors that cannot motivate people but cause dissatisfaction if not present
 - Examples: salaries, working conditions, flexible work hours, ...



Maslow & Herzberg

Maslow	Herzberg
self-actualisation	motivators hygiene
self-esteem	
social	
safety	
physiological	



What motivates Students?

- Passing a unit of study
- Getting a degree
- Getting a good mark in a unit of study
- Getting a high distinction in a unit of study
- Improving job prospects
- Learning something about a topic area
- Improving personal knowledge and skills
- •
- Important to know motivation(s) in group-based work!



Understanding Personalities Types

- Working with others can be difficult
- But if you understand another person's behaviour, it helps you work towards common solutions.
- Myers and Briggs a common psychological personal indicator : 16 personality types (4 temperaments)
 - Extrovert / Introvert (E / I)
 - Sensing / intuition (S / N)
 - Thinking / Feeling (T / F)
 - Judgment / Perception (J / P)
- Knowing about this classification can help you understand how other people act and think.
 - Assists in planning, conflict resolution etc.



Myers-Briggs Type Indicator

Extrovert / Introvert (E / I)

- It determines if a person is generally extroverted or introverted
- Extrovert: people who direct their energy to other people and outer world of activities
- Introvert: people who direct their energy to their inner world of ideas and thoughts

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Myers-Briggs Type Indicator (cont.)

Sensing / iNtuition (S / N)

- •It determines how a person gathers information
- Characteristics of sensing type people:
 - They rely on facts, familiarities, details, and reality
 - They consider themselves as practical
- Characteristics of intuition type people:
 - Imaginative
 - Ingenious
 - Attentive to hunches or intuitions

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Myers-Briggs Type Indicator (cont.)

Thinking / Feeling (T / F)

- •It represents the way people make their decisions
- People belonging to Thinking category are objective and logical
- People belonging to Feeling category are subjective and personal

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Myers-Briggs Type Indicator (cont.)

Judgment / Perception (J / P)

- It concerns people's attitude towards structure
- Characteristics of judging type people
 - They like closure and task completion
 - They will establish deadlines and take the deadlines seriously, expecting other people to do the same
- Characteristics of perceiving type people
 - They prefer to keep things open and flexible
 - They regard deadlines more as a signal to start rather than complete a project
 - They do not feel that work must be done before play or rest begins



Myers-Briggs Type Indicator (cont.)

Take the test: <u>www.humanmetrics.com/cgi-win/JTypes2.asp</u>



So What?

Is the use of the Myer-Briggs indicator worthwhile?

- Studies have been done to assess its utility
- It is not universally accepted that MBTI is of use for predicting job performance, or suitability for inclusion in a team
- Nevertheless, many organisations use MBTI as a tool when hiring or promoting, so it is useful for you to know about it
- The theory is that when putting a team together, it is useful to have a balance across MBTI categories.



Personalities and Teams

- For a team to function "best", it is suggested that we need a variety of personality types, each contributing in their own way.
- R. Meredith Belbin identified 9 roles:
 - Coordinator
 - Shaper ("worrier", helps to focus on important issues)
 - Plant (generates ideas and potential solutions)
 - Monitor Evaluator
 - Resource Investigator
 - Team Worker
 - Implementer
 - Completer/Finisher
 - Specialist (aka "techie")



Personalities (cont.)

- Successful teams need a good mix of people who fill all these typical roles.
- Often, unsuccessful teams have too many of the same type of person
 - be wary of groups of "techies"!
 - Consider working apart from your best friends!
- Test can be found on Web by searching for "Belbin test for assessing team roles".



Varieties of "Difficult" People

- The know-it-all
- The think-they-know-it-all
- The do-it-all-myself
- The YES person
- The maybe person
- The nothing person
- The NO person
- The whiner



Team Communication

- Project team meet to discuss issues and share ideas, however, not all team meetings are effective
 - https://www.youtube.com/watch?v=vE7jfQt2ic4
- Always be capturing is important one way of effective communication in team meeting



Always be Capturing

 It is a habit of continuously recording the value of your conversation

 For example: If you're talking about a new concept, you should be sketching it as you talk so your team has a shared understanding and an artifact of the conversation.



How to Capture

- Fill your whiteboards / walls / desk with notes
- Write down individual ideas, questions, or UI elements on Post-its.
- Take photos of notes and drawings with your smartphone
- upload the photos from your smartphone directly to a shared folder, e.g. Dropbox



Some Principles of Capturing

- Don't repeat yourself
 - look around the room at everything your team captured to see if you were repeating yourselves.
- If you can't capture it, stop talking, since you are not really pushing anything forward
- Appoint a facilitator to serve as an objective manager of the discussion and sure that everything got captured and that everyone stayed on point.



Some Principles of Capturing

- Write down or sketch everything important
 - If you're comparing two things, just make a two-column table and write out the differences.
 - If you're talking about a bunch of features, write them down on Post-its and sort them on the wall.
 - If you're brainstorming a concept, sketch it out. This immediately shows you whether everyone is thinking of the same thing.



Leading Collaboration Teams

- Nautilus "The Anatomy of Charisma": http://nautil.us/issue/45/power/the-anatomy-of-charisma
- HBR "As Your Team Gets Bigger, Your Leadership Style Has to Adapt": https://hbr.org/2019/03/as-your-team-gets-bigger-your-leadership-style-has-to-adapt
- New York Times "Why Some Teams Are Smarter Than Others": https://www.nytimes.com/2015/01/18/opinion/sunday/why-some-teams-are-smarter-than-others.html
- Behavioral Scientist "Bursty" Communication Helps Remote Teams Thrive": https://behavioralscientist.org/bursty-communication-can-help-remote-teams-thrive/
- HBR "How to Lead When You're Not the Boss": https://hbr.org/2009/02/how-to-lead-when-youre-not-the
- HBR "Making Decisions Together (When You Don't Agree on What's Important)": https://hbr.org/2013/11/making-decisions-together-when-you-dont-agree-on-whats-important
- Vox "A Stanford Psychologist on the Art of Avoiding Assholes": https://www.vox.com/conversations/2017/9/26/16345476/stanford-psychologist-art-of-avoiding-assholes
- New York Times "Give Compassionate Feedback While Still Being Constructive": https://www.nytimes.com/2020/02/24/smarter-living/how-to-give-helpful-feedback.html
- TED Ideas "How Do Good Leaders Give Advice?": https://ideas.ted.com/how-do-good-leaders-give-advice-the-short-answer-they-dont/

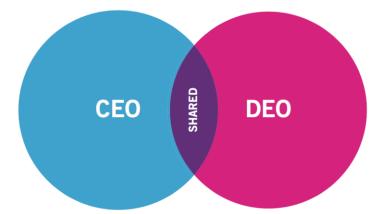


Design Leader

1. "Rise of the DEO: From CEO to DEO": ht/4894789de47">https://html/>ht/4894789de47

Six defining traits of good designers and as

- Change agents comfortable disrupting
- Risk takers embrace risk as an inherer
- **System thinkers** understand the interc
- Intuitive intuitively enhanced decision
- **Socially intelligent** prefer spending tin equipment, plants, or spreadsheets
- GSD They feel an urgency to get perso interaction, and to lead by example



CEO TRAITS

Top executive
Authoritative
Linear thinker
Executes to plan
Maintains stability and order
Commands respect
Must be accurate
Delegates actions
One-way communication
Follows the manual
Doesn't like to fail
Sensitive to threats

SHARED TRAITS

Ambitious
Confident
Rational
Competitive
Competitive
Competitive
Experiment
Permits use
Earns respe
Comfortable
Hands-on w
Networked
Adapts and
Learns from

DEO TRAITS

Most senior partner
Aspirational
Systems thinker
Experiments and improvises
Permits useful disruption
Earns respect
Comfortable with ambiguity
Hands-on when needed
Networked
Adapts and iterates as needed
Learns from mistakes
Open to new experiences