

What I Learned in 2020

Helen Beal





Human

Ways of Working Practitioner

Strategic Advisor

Chief Ambassador: DevOps Institute

Ambassador: CD Foundation

DevOps Editor: InfoQ

Analyst: Accelerated Strategies

Ecologist, novelist

Volunteer warden at Kingley Vale

Can dig an Olive Ridley turtle nest

Mission: Bringing joy to work

The Joy of Community



DevOps Institute Ambassador Community



DevOps Institute Chapters



The Professional Membership Program



COMING
SOON!

A hand is holding a white paper cutout of a house with a chimney and windows. The background is a blurred image of a person wearing a white shirt and a hat, possibly a real estate agent, standing outdoors. The text "The Joy of Home" is overlaid in orange on a white rounded rectangle.

The Joy of Home

DevOps for Pandemics

 Sean D. Mack Oct 27 · 10 min read



by Sean D. Mack and Sia Ahmadzadeh

COVID-19 has transformed the way we live and work. Today we sit amid a pandemic whose effects will extend well beyond today and into the future of work. This is truly an unprecedented event and it has forced us to adapt in ways that we could not have anticipated. DevOps has evolved over the past ten years as a set of principles to respond more quickly to the rapidly changing business and technology landscape. DevOps has transformed the way we work by bridging the gap between development and operations teams and improving time to market while improving service availability. Key DevOps principles and practices such as collaboration, transparency, and automation stand at the core of our ability to adapt. The same DevOps

“The same DevOps principles which have helped deliver better market outcomes have also helped us to adapt to rapidly changing conditions brought about by the COVID-19 pandemic.”



What Wiley Observed

- Adaptability through DevOps processes, practices and tooling
 - Cloud, IaC, CI/CD, 'socially distanced' applications
- Increase in use of collaboration tools
- Inclusiveness and a culture founded in trust
- Focus on learning for security in the face of increased attack vectors
- Infrastructure elasticity as customers (students) flock to online learning
- Transparency/visibility - monitoring and business continuity dashboard



Expo Hall

Auditorium

Lounge

Info

TODAY'S SKILŪP DAY
AIOps & MLOps

#skilupday

NEXT SKILŪP DAY
Continuous Testing
Register Now

ROAD TO OBSERVABILITY

CETRIC OR AGNOSTIC: THAT IS THE QUESTION

CHRIS ENGELBERT

LOTS OF DIFFERENT DATA SOURCES

PROBABLY A PART OF OBSERVABILITY

EVERYTHING IS C.O.N.N.E.C.T.E.D. SOMEHOW

FIXED THRESHOLDS

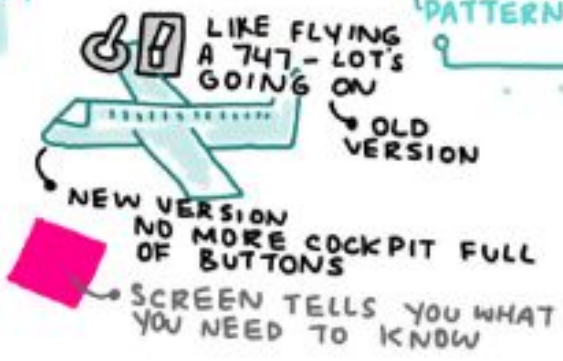


ANOMALY

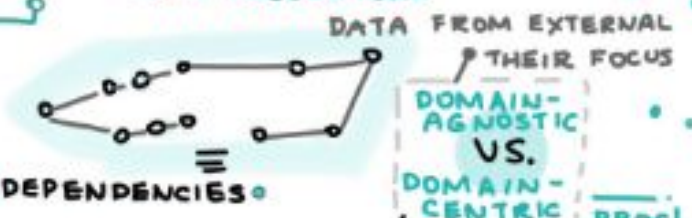
AS HUMANS WE NEED A MACHINE TO CORRELATE ANALYZE DATA

FINDING PATTERNS

BASELINE



- ✗ MANY VASTLY DIFFERENT COLLECTORS.
- ✗ VARYING DATA QUALITY.
- ✗ HARDER TO SETUP. CONFIGURE 1 by 1.
- ✓ VISUALIZATION FREEDOM NOT ALWAYS GOOD
- ✓ BROADER SYSTEMS SUPPORT
- ✓ REUSE EXISTING DATA COLLECTORS



DOMAIN-AGNOSTIC VS. DOMAIN-CENTRIC

PROS & CONS

- ✓ ONE-STYLE COLLECTOR
- ✓ CONSISTENT DATA QUALITY
- ✓ QUICK & EASY TO GET STARTED
- ✓ VERY OPINIONATED
- ✗ LESS SYSTEMS SUPPORT
- ✗ INTEGRATION WITH EXTERNAL TOOLS



Handycode HANDS EYE CREATIVE

A young man and woman, both wearing backpacks and sunglasses, are smiling and looking at a large map they are holding together. They are outdoors, with a blue sky and a body of water in the background. The scene is bright and sunny, suggesting a pleasant day for travel or hiking.

The Joy of Journeys



**We are not on the
road anymore.**



Not on a train.

Высокоскоростной
поезд
High-speed train



Зона А

000, как удобно!

Мобильный банк
для бизнеса



Держите бизнес
в своих руках

Мобильный банк
для бизнеса



Мобильный банк
для бизнеса



Мобильный банк
для бизнеса



Мобильный банк
для бизнеса





Not on a plane.

COMING
SOON!

Team DOCA

Enterprise DOCA

DevOps Scorecard

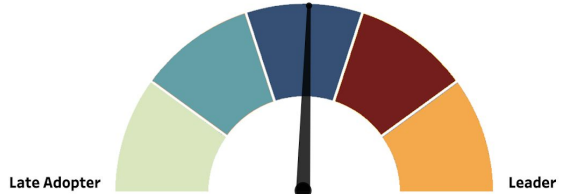


Download

5 Dimensions of DevOps Capability: How to Become a High Performing Organization

In this digitally disrupted world, we've discovered the patterns, principles and practices that correlate with the organizational designs and behaviors that optimize the flow of value outcomes from idea to value realization and ensure a company survives or even thrives in the face of competitive pressures. You know that you have to be able to deliver more value, at accelerated pace, at higher quality and more safely than you do to delight your customers and teams, but it's very hard exactly to know where to focus your efforts and energy when DevOps evolution has so many complex elements to consider and requires the intent of a large number of humans over several years of time. Our DevOps capability assessments provide insights into where your capabilities are highest (kudos!) and where you may want to pay some more attention to improve. **Keep coming back to them to inspect the impact of the experiments and adapt accordingly; pivot or persevere.**

DevOps Capability Score: 51%



You're about halfway there - keep going! If energies are starting to flag, find new ways to motivate people. Take a close look at how you are measuring improvement, sharing, celebrating and rewarding it. Make sure you are measuring unplanned work and toil and get these tasks out of the way so you and your teams can focus on the fun stuff and get feedback on the value you are creating.

Data Trends

+ Custom Reports

Download



Capability Distribution

Highlight Capability - Sub Capability | Teams: Team 1

● Strongly Disagree (1 - 1.8) ● Disagree (1.9 - 2.6) ● Neither Agree Nor Disagree (2.7 - 3.4) ● Agree (3.5 - 4.2) ● Strongly Agree (>=4.3)

		Human Aspects	Process & Frameworks	Functional Composition	Intelligent Automation	Technology Ecosystem
High	High					
		●		●		●
		●		●		●
		●	●	●	●	●
		●	●	●	●	●
Low	Low	●	●	●	●	●
		●	●	●	●	●
		●	●	●	●	●
		●	●	●	●	●
		●	●	●	●	●
Sub Capability: Site Reliability Engineering Score: 2.7						



The Joy of Flow

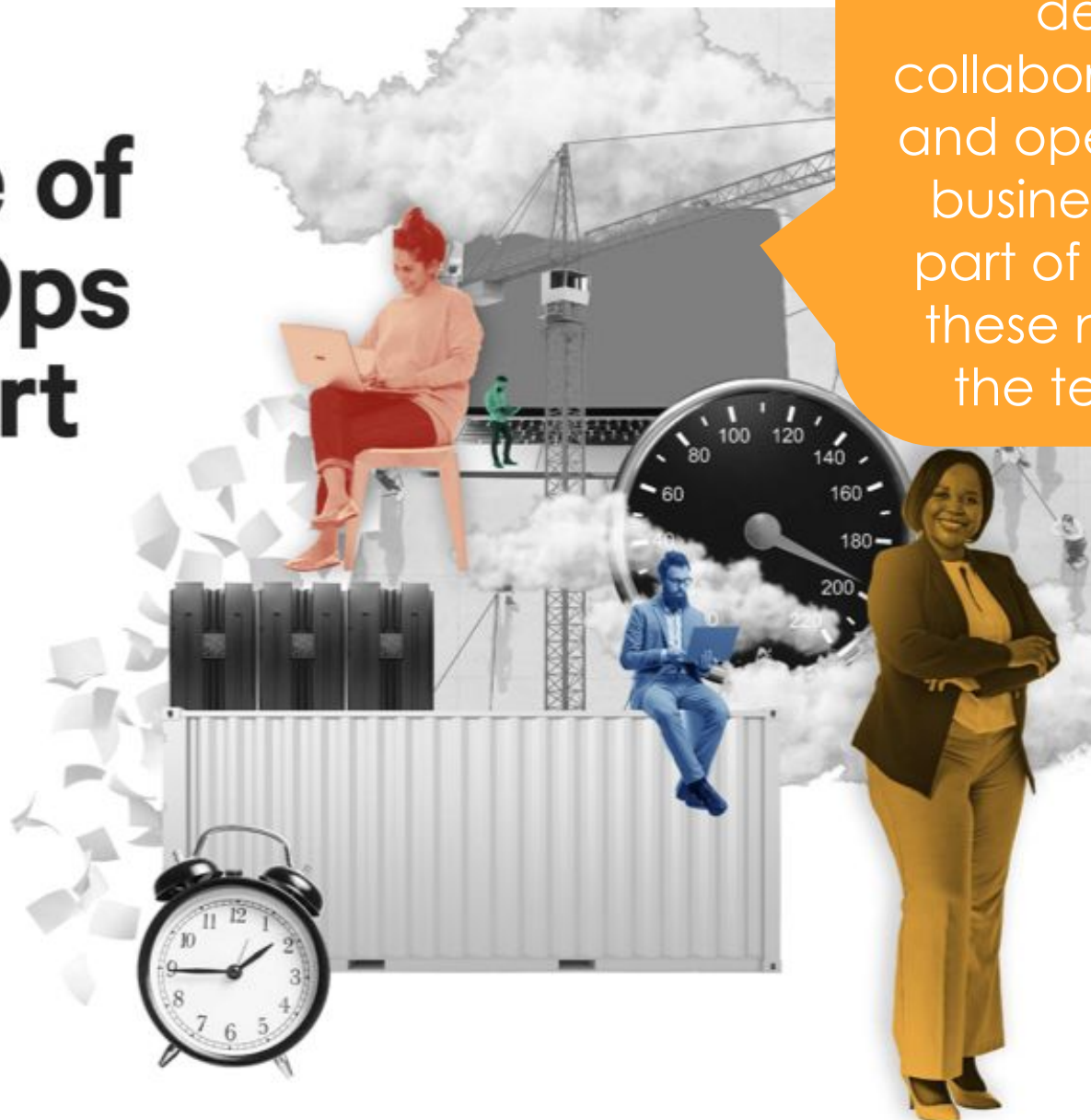
2020

State of DevOps Report

Presented by



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“In any organization, creating value through software does not depend solely on good collaboration between developers and operators. Nearly all adjacent business functions are ultimately part of the software process, and these need to evolve along with the technical delivery teams.”



“When we published our first VSM evaluation in 2017, few AD&D leaders had heard of VSM; since then, the VSM tools market has evolved rapidly as have prospective buyers of VSM tools. AD&D planners, engineers, and release experts understand VSM and want it to help them plan, create, and deliver software experiences that align to both the business’ and customers’ needs. In fact, 33% of development managers tell us that collecting and integrating more feedback from users and speeding release and cycle times are among their top three priorities. Smart AD&D leaders know they can’t improve their processes without data. VSM gives them the data they need to create baselines of current software delivery practices and set a path for improvement across each role of the AD&D organization.”

FORRESTER®

The Forrester Wave™: Value Stream Management Solutions, Q3 2020’ by Chris Condo with Christopher Mines, Diego Lo Giudice, Andrew Dobak, and Kara Hartig, published July 15, 2020

A photograph of two women sitting at a table in an outdoor cafe setting. Both women are looking down at their smartphones. The woman on the left has long dark hair and is wearing a dark jacket and a light-colored scarf. The woman on the right has curly hair and is wearing a brown leather jacket. There are glasses of beer on the table in front of them. The background shows outdoor cafe umbrellas and buildings. A semi-transparent white rounded rectangle is overlaid on the image, containing the text.

The Joy of Humanity

The Attention Economy



As long as social media companies profit from outrage, confusion, addiction, and depression, our well-being and democracy will continue to be at risk.

[Center for
Humane
Technology]

Driven by Value

[Center for
Humane
Technology]

"You can be **values-driven** while still being informed by metrics. You can spend your time thinking about the specific values (e.g., health, well-being, connection, productivity, fun, creativity...) you intend to create with your product or feature. Those values can be a source of inspiration and prioritization. You can measure your success directly by investing in mechanisms of understanding that match the complexity of what you value, e.g. qualitative research and bringing in outside expertise."

?

How can technology help increase capacities for concentration, clarity, and equanimity?

?

How can technology foster a sense of agency and community?

?

When are you vying for the user's attention for the benefit of your product rather than for their benefit?

The Origins of AIOps

Given that most performance incidents, ultimately, result from changes and that many of those changes originate on the development side of the house, continuous communication between development and production is the surest path to quickly and effectively isolating the root cause of a performance incident. (Will Cappelli)



40% of DevOps teams will be using application and infrastructure monitoring apps that have integrated artificial intelligence for IT operations (AIOps) platforms by 2023. (Gartner as quoted by Forbes)

AIOps is Humane.

AIOps Helps Us Be Humane.

?

How does AIOps help increase capacities for concentration, clarity, and equanimity?

?

How does AIOps foster a sense of agency and community?

?

Does AIOps vie for the user's attention for the benefit of AIOps rather than for their benefit?



2021

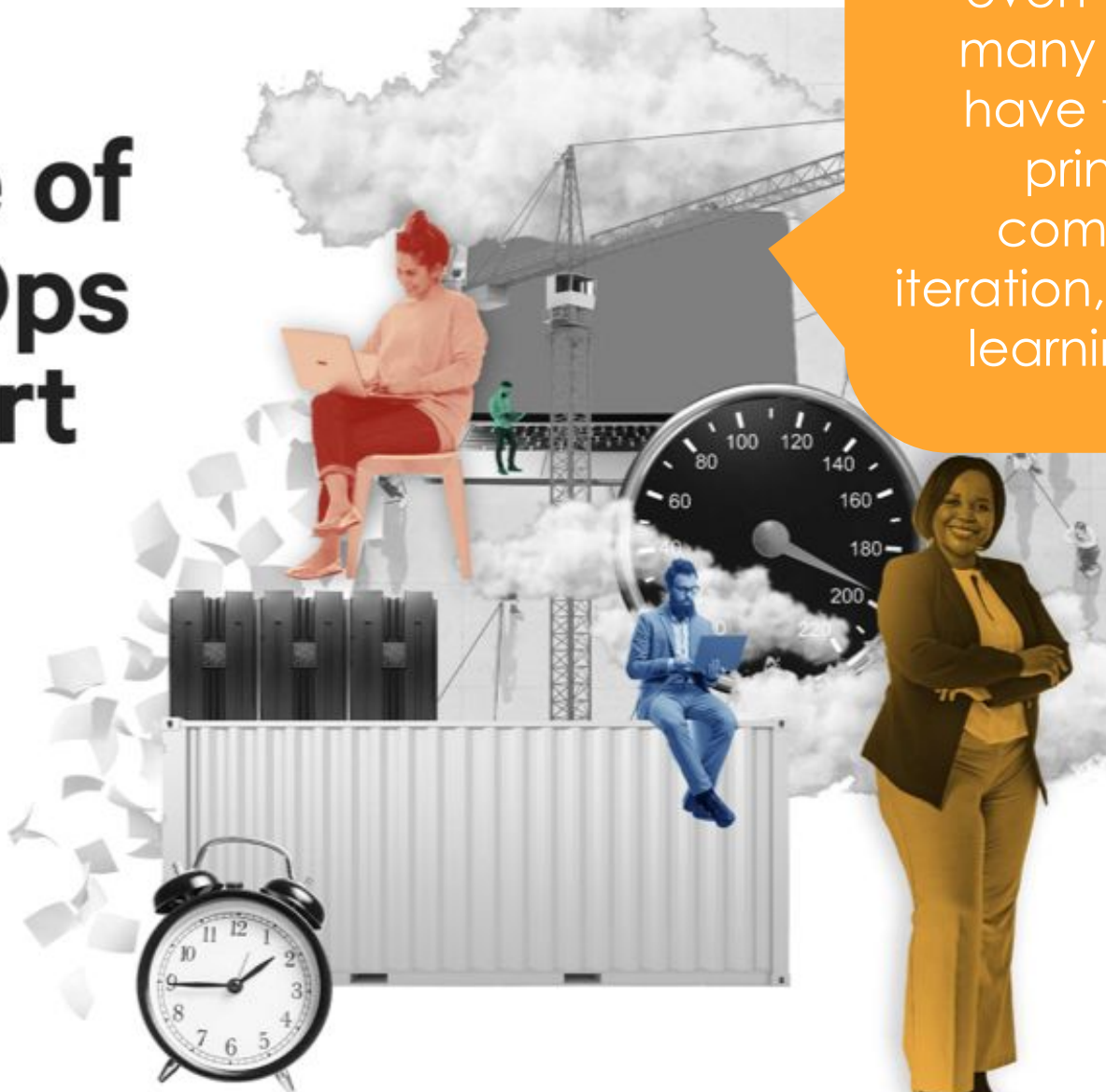
2020

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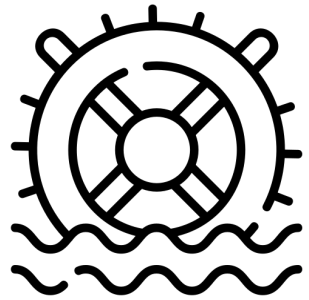
“Perhaps a few years from now, the term “DevOps” will sound quaint — even fade away — because so many people and organizations have fully adopted the DevOps principles of collaboration, communication, small-batch iteration, feedback loops, continuous learning and improvement. We certainly hope so.”

“To accelerate development and enable continuous delivery of customer value, organizations need to reach the next level in their agile and DevOps practices. I&O leaders and application leaders must focus on value stream management to maximize flow, improve delivery efficiency and drive innovation.”

Gartner

‘Predicts 2021: Value Streams Will Define the Future of DevOps’ by Daniel Betts, Chris Saunderson, Ron Blair, Manjunath Bhat, Jim Scheibmeir, Hassan Ennaciri. Published 5 October 2020

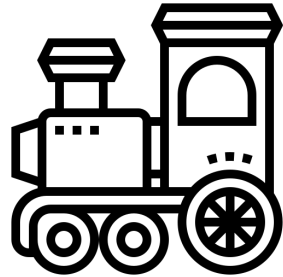
1



The industrial revolution

1771

2



The age of steam and railways

1829

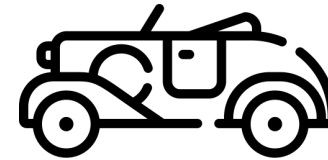
3



Age of steel, electricity and heavy engineering

1875

4



Age of oil, automobiles and mass production

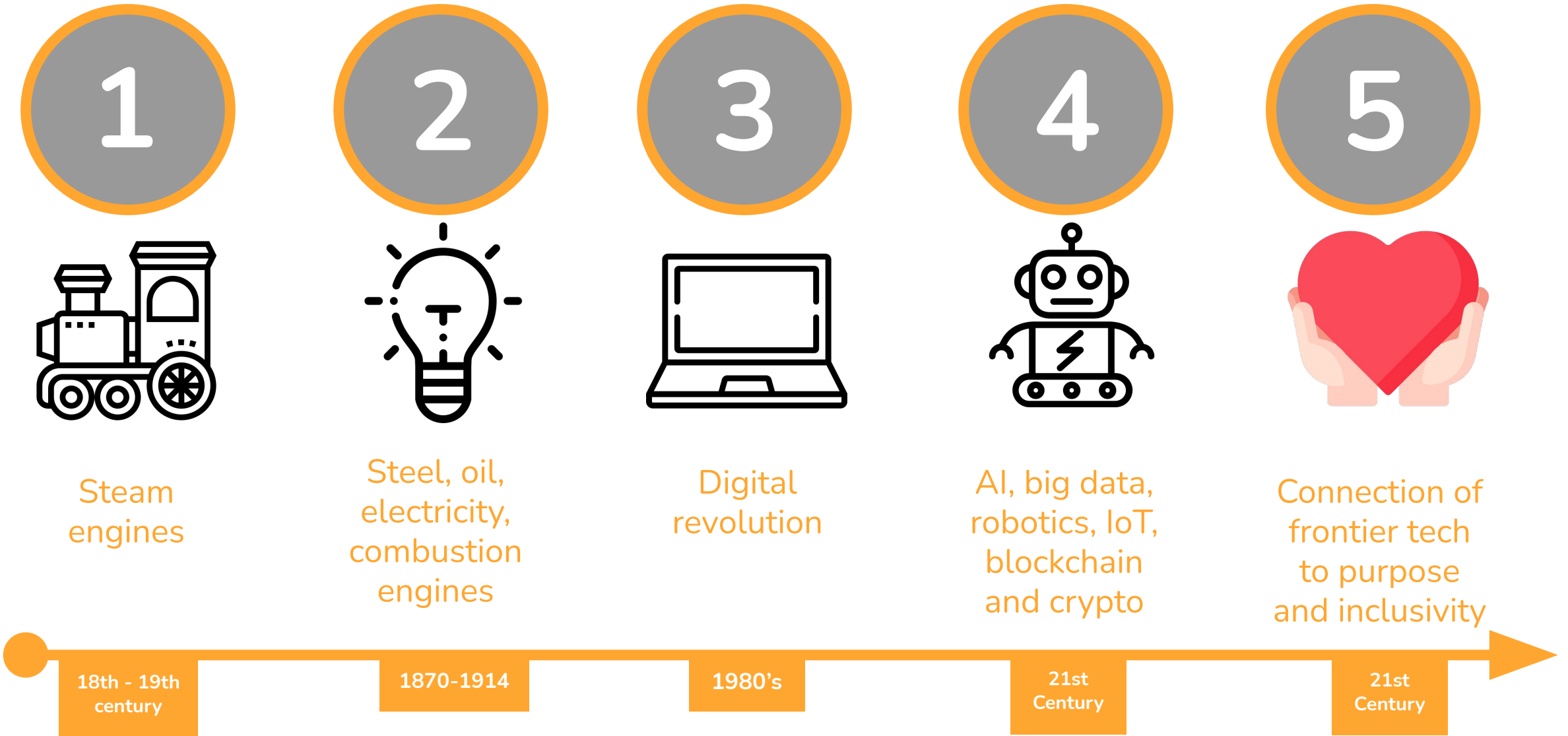
1908

5

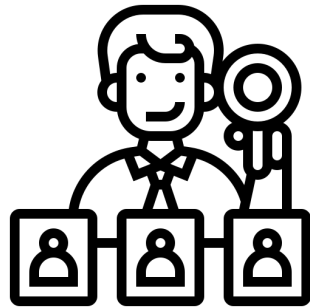


Age of information and telecomms

1971

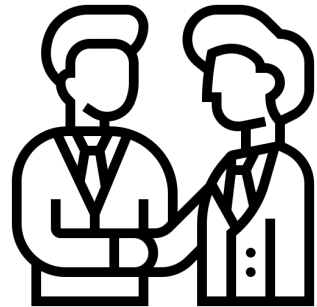


1



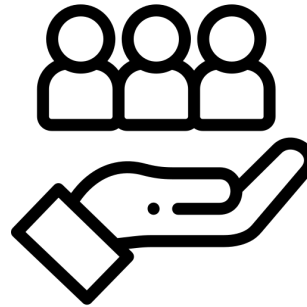
Managerial
capitalism

2



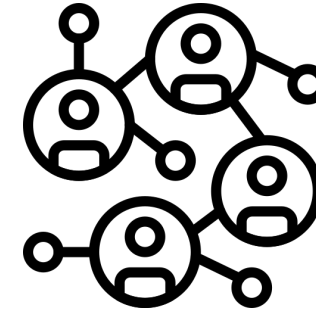
Shareholder
capitalism

3



Customer
capitalism

4



Community
capitalism



“In contrast to trends in the 4th Revolution toward de-humanization, technology and innovation best practices are being bent back toward **the service of humanity** by the champions of the 5th.”

Jim Van Eerden

“Most of the conferences I attend focus on ‘the next big tech thing’ and what it can do, often to the exclusion of the utility and impact the technology will have on society. I am most often asked what the next ‘smart money’ tech trend is in fintech. I am now happy to report it is not blockchain, bitcoin, or AI. **It is humanity.**”

Lawrence Wintermeyer


Thanks for listening! Stay human.



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