





The new jobs will be defined by human interaction, problem solving, & creativity, for which social emotional skills are vital.

800MN Jobs Gone by 2030

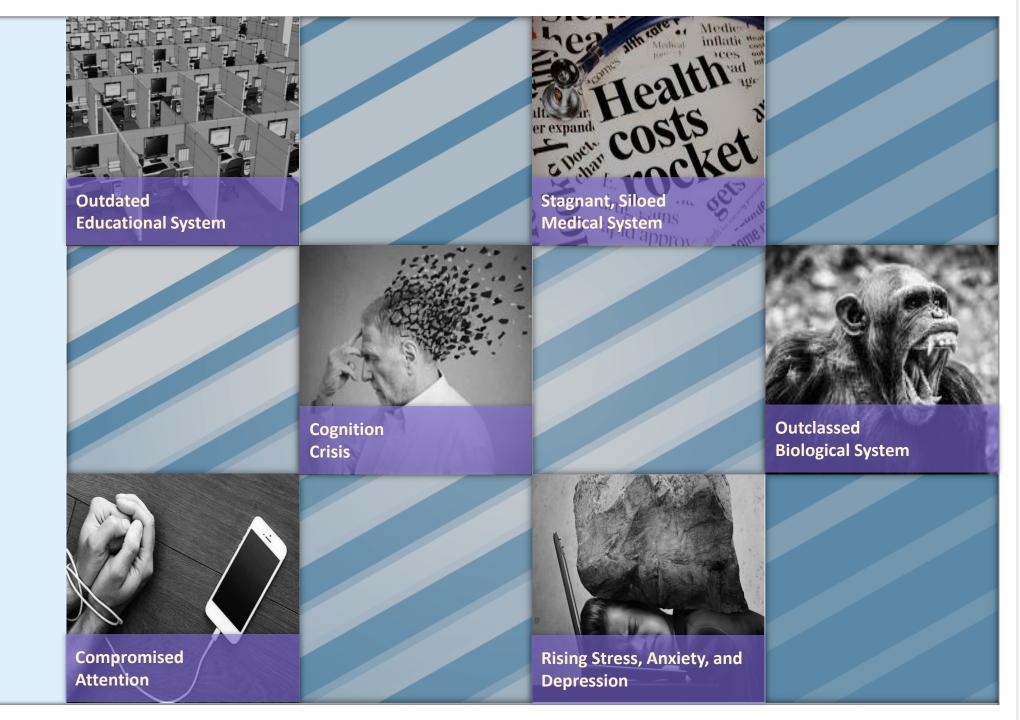
McKinsey 2017 Report

46% of All Tasks of All Jobs Eliminated

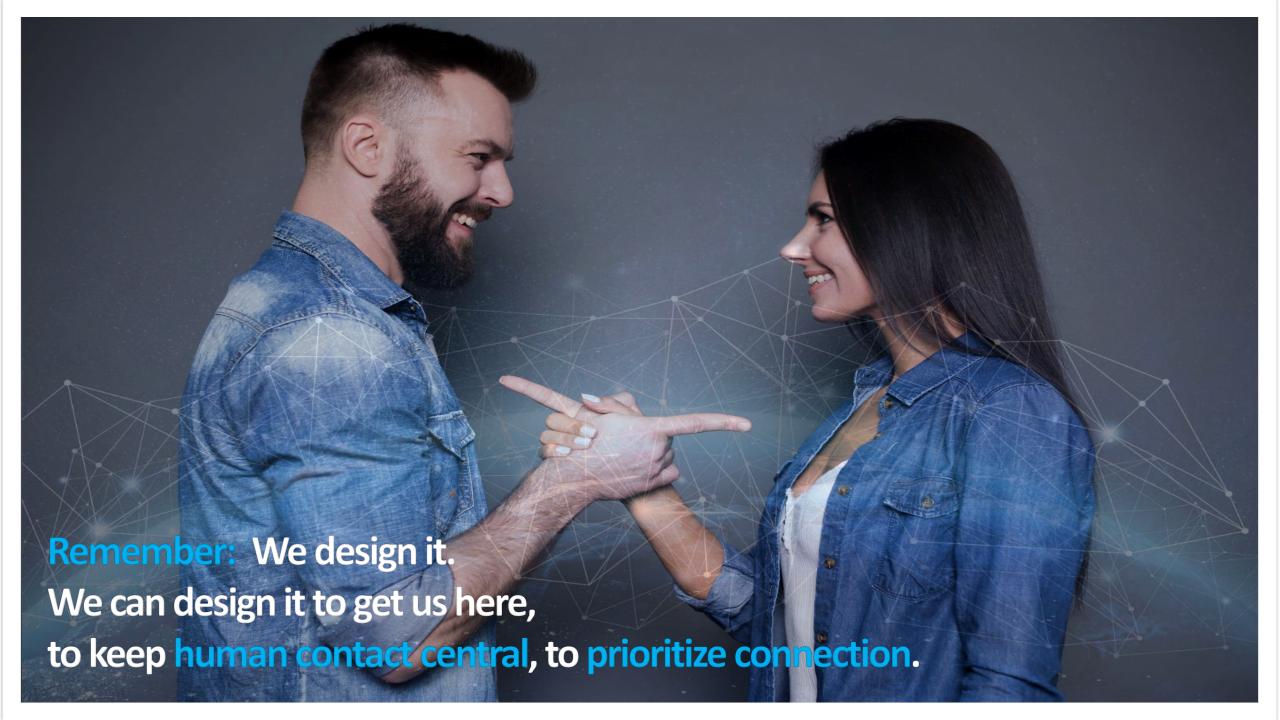
https://qz.com/1090176/how-to-think-about-job-automation-studies/



Success is not a given and... time is running out.



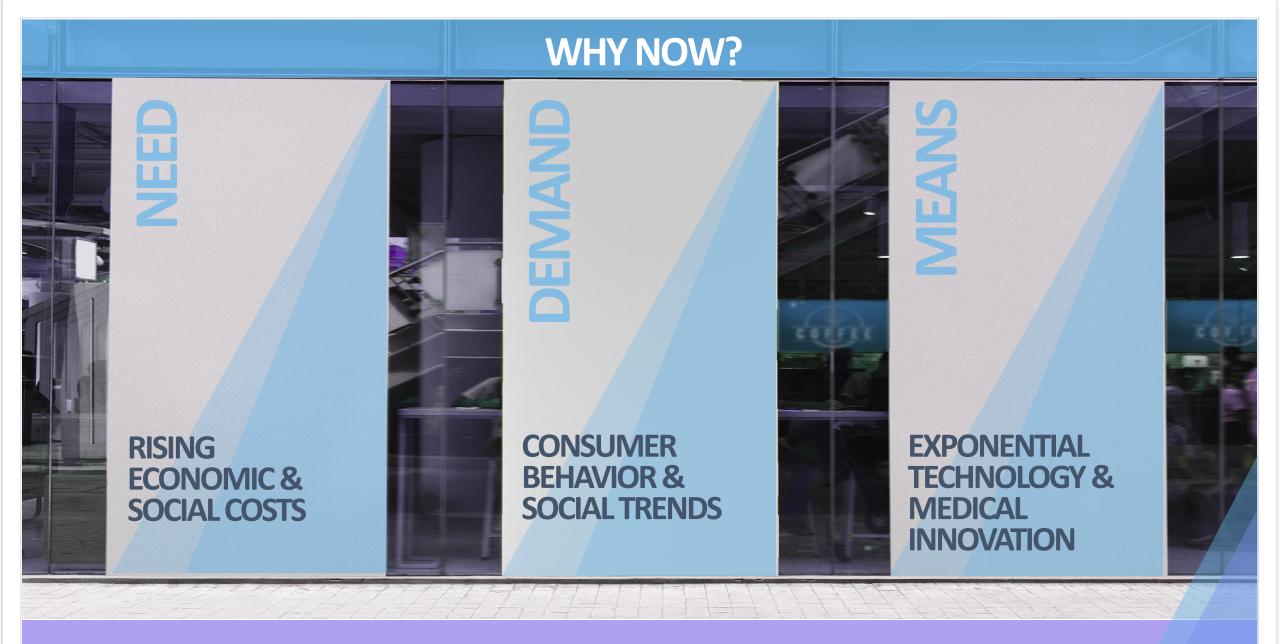








Success for humanity depends on you. This is the great work of our time.



A New Era of Human Flourishing

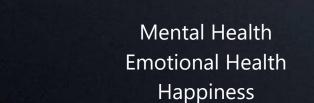
THE HUMAN WELLBEING MARKET OPPORTUNITY

- Massive, growing markets, \$3.7TN WW, 10.6% CAGR and growing
- Transformative Tech disrupts several \$100BN industries, creates new markets
- Market includes every human mind

FUTURE BASICS



FUTURE OF LIFE



Emotional Intelligence Social Emotional Skills Engagement Flourishing
Enhanced Mental Capacity
Enhanced Emotional Capacity

Technology is that force

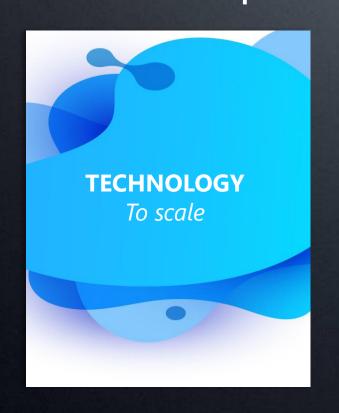
Which takes something scarce



MENTAL HEALTH | EMOTIONAL WELLBEING | HUMAN THRIVING



We serve Transformative Tech Entrepreneurs, Innovators, and Investors







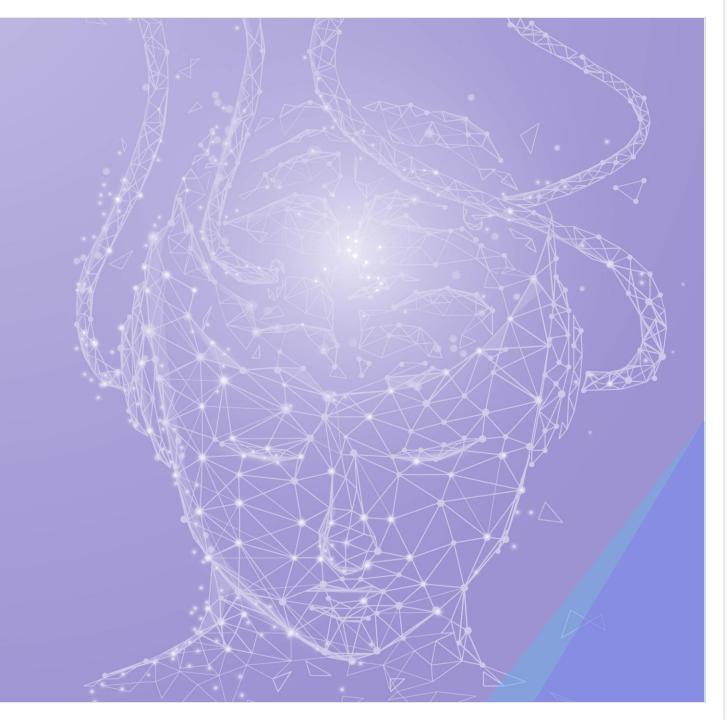
To Find Feedback, Funding, and Friends.

OUR GOAL

TO ELEVATE THE HUMAN MIND

1.0BN

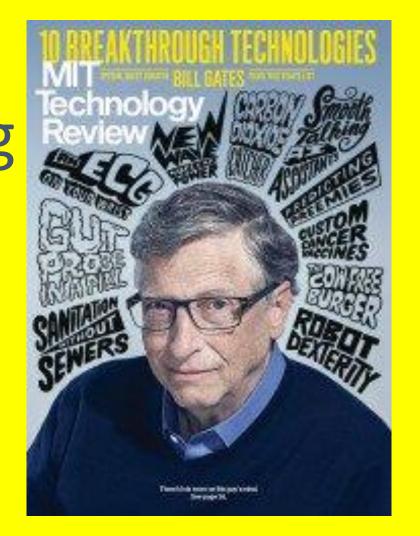
2.0BN



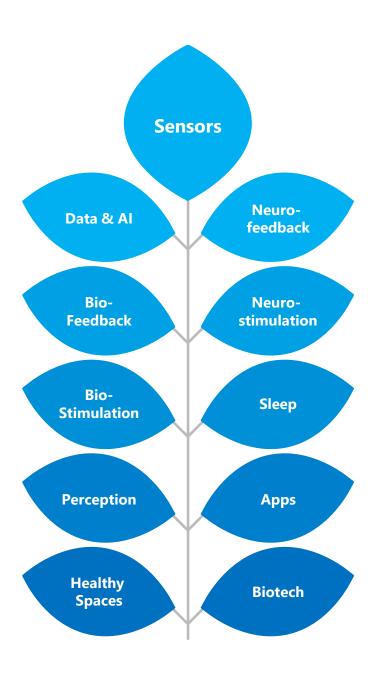


Because we're living longer, our focus is starting to shift toward wellbeing.

– Bill Gates



"I need my people to envision things that no one has thought of yet, and for that to happen, I have to help them access the best, most creative part of themselves." - Fortune 500 Innovation Lead



12 MAJOR AREAS OF TRANSFORMATIVE TECHNOLOGY

- Sensor Tech (Wearables, Hearables, Remote / Environmental)
- Data Tech (Al, Big Data, Real Time Analytics)
- NeuroTech (EEG, fMRI)
- Neurostim Tech (tXCS, tRNS, DBS, CNS, TUS, FUS, TMS)
- Biofeedback Tech (EDA, Heart, Temp, Breath)
- Bio Tech (Genetics, Biome)

- Biostim Tech (Vagus Nerve, Peripheral Nerves)
- Perception Tech (VR, AR)
- Sleep Tech (Monitoring, Improvement)
- Healthy Spaces Tech (Design, Air, Water, Lighting, Materials)
- App Tech (Gaming, Gamification, Apps, Social, Behaviour)
- Robotics / Carebots



AMPLIFY

ENHANCE

CONNECT



ΔΙ



Digital Medicine



Neurofeedback



Biotech



Biofeedback



Sleep Tech



Networks & Sensors



AR/VR



Behavioral Change



Digital Manufacturing



Healthy Spaces Tech



Robotics

Sleep





Meditation



INSIGHT Peace in our Timer









Amplified Therapist



Human Centered

Stress Management





Corporate Platforms







Emotion Recognition







Mood Management/ Positive Psychology

POSITIVE EMOTIONS





Behavior Change

PAVLOK











Life Tasks Game

Focus











TDCs





Sound

Emotion Tracking/ HRV Training













VR/AR Applications



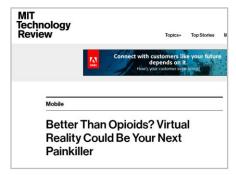






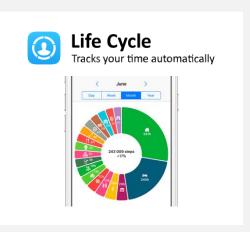


BeAnotherLab



Pattern Recognition









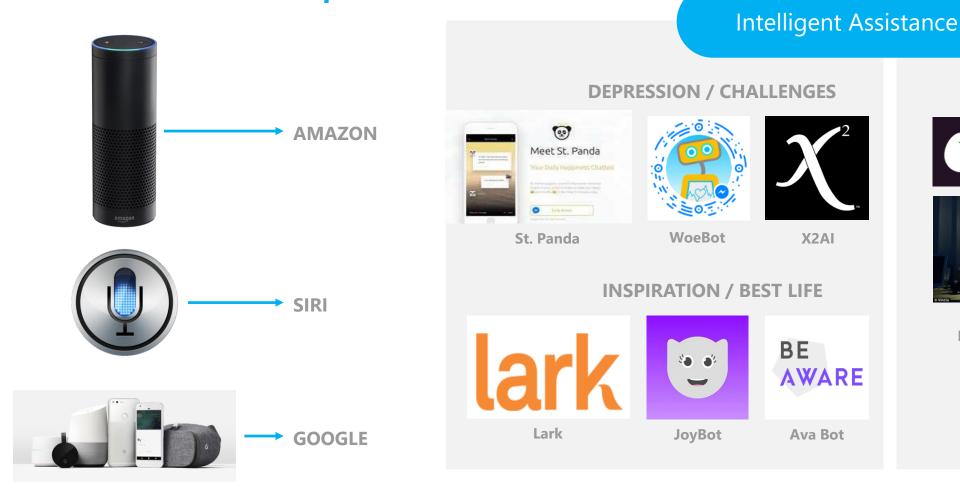


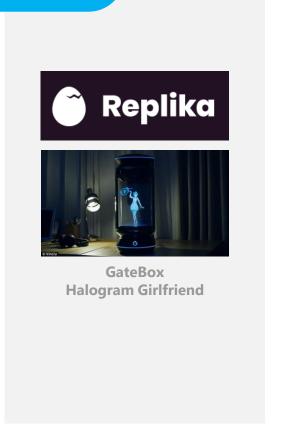
Life Data + Bio Data For Stress Management



Sentient Home = IOT Data + Mobile Data + Behavior Data For Elder Care

"Alexa, help me relax"





Why not use AI to challenge meaning-making?

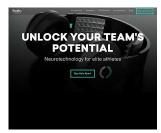
Mood Subscriptions



Neuro Stimulation









Healthy / Calming Spaces







Emotion-Based Scents Dispersal

Engineered Soundscapes

Circadian Lighting



Sentient Home
Smart IOT + Calm Programs

Personalized Food



Food is Mood

Gut Biome (& Mood)



Haptics









We are the largest ecosystem dedicated to the development of transformative technologies.



The nexus point for Transformative Technology for the academic, industry, and public sectors.



The biggest conference on Transformative Tech 750 Attendees US, TT Europe Launching May 2019



Publishes Industry Research



The annual list of the key companies and innovators in Transformative Tech.



City Chapters in Top Tech Ecosystems. Members in 70 countries and 450 cities.



World's 1st tech start-up program focused on human wellness and joy.

Corporate

Deloitte.

Deloitte Center for

wework labs





Past & Current **Sponsors & Partners**

Venture Funds

















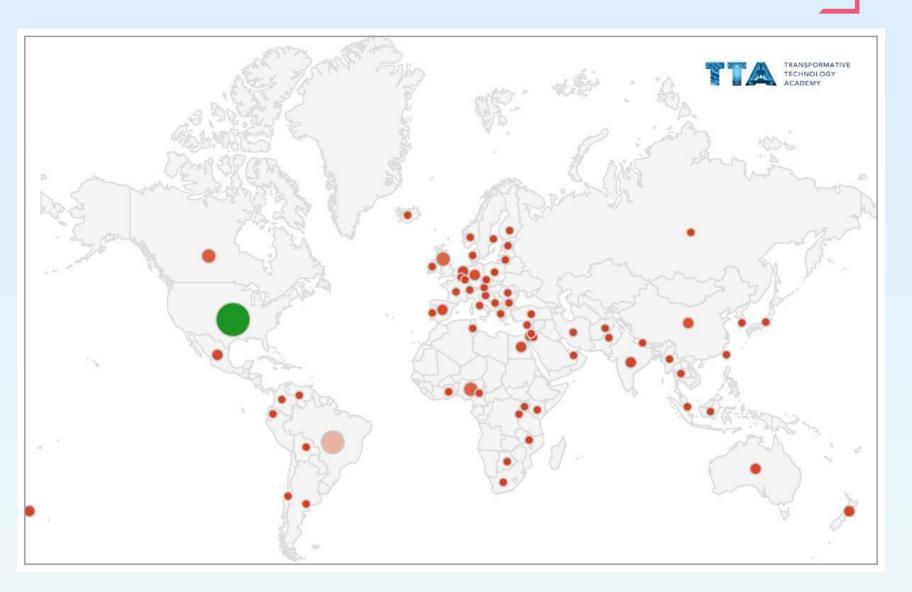
Foundations







With members in 70 countries and 450 cities.



How can you help create transformative future?

1. IMAGINE

a world where we're all able to fulfill our full possibility.

2. CREATE

Transformative Technologies

3. BUILD

Transformative Companies

4. SUPPORT

the Transformative Technology Movement

5. SPONSOR

the Transformative Tech Conference & Academy

NO MORE NOBLER USE OF TECHNOLOGY THAN TO BRING PEACE TO THE MINDS OF HUMANKIND.

CLAIM YOUR SEAT

www.ttconf.org



APPENDIX

TECH TRENDS & DISRUPTIONS – TIM CHANG'S LIST



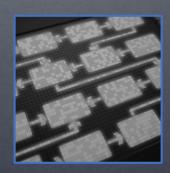
Computer
Vision:
Eyes Everywhere!



Voice as a Platform: Ears & Speech Everywhere



Machine Learning



BlockChain, Beyond Bitcoin



IOT 23B+ Connected Devices



Hacking human perception:
AR/VR as the next interface



Genomics: the Era of Read/ Write Biology



First the Cloud... Next Comes the Fog



10B+ Mobile
Connected Devices



Conversational Interfaces (Smart Agents)



Here Come the Robots!



5G Networks



Al-Augmented Humans



Health and Wellness:
Can Tech Save Us
From Ourselves?

FLOURISHING

High emotional well-being

- Positive affect
- Negative affect (low)
- Life satisfaction

High psychological well-being

- Self-acceptance
- Personal growth
- Purpose in life
- Environmental mastery
- Autonomy
- Positive relations with others

High social well-being,

- Social acceptance
- Social actualization
- Social contribution
- Social coherence
- Social integration

Be. (Stress, Anxiety, Depression, Meditation, Happiness)

Fee . (Emotional Self-Regulation, Self-Awareness, Compassion)

Become (Meaning Making, Growth, Purpose)

WHAT IS EMOTIONAL WELLNESS?

Emotional wellness is the ability to successfully handle life's stresses and adapt to change and difficult times. - NIH

Emotional Wellness implies the ability to be **aware of and accept our feelings**, rather than deny them, have an **optimistic approach to life**, and enjoy life despite its occasional disappointments and frustrations. - USC

People who are emotionally healthy are in control of their thoughts, feelings, and behaviors. They are able to cope with life's challenges. They can keep problems in perspective and bounce back from setbacks. They feel good about themselves and have good relationships. — Familydoctor.org

THE NEXT HUMAN AGENDA?

LONGEVITY | HAPPINESS | AUGMENTATION

Yuval Noah Harari

New York Times Bestselling
Author of Sapiens



Homo Deus

A Brief History of Tomorrow

FROM THE AUTHOR OF SAPIENS

Yuval Noah Harari



21 Lessons for the 21st Century

DO-ING





Thinking
Feeling
Creating
Learning
Connecting
Collaborating
Trust-Building
Problem Solving
Be-ing Human

WELLNESS
WELLBEING
SELF-AWARENESS
MEANING-MAKING
BEHAVIOR CHANGE

"A new <u>use case</u>, a <u>design intention</u>, a <u>pivot</u> of current and emerging tech towards our <u>inner growth and</u> <u>development</u> as humans."

THE RISING GENERATION



Wants health, happiness, and wellbeing

See mental and physical health as equally important

US Millennials spend ¼ of disposable income on wellbeing

Millennials and Gen X own 69% of fitness wearables

60% of US college students feel seeking help for mental health is a sign of strength

TRANSFORMATIVE TECHNOLOGIES FRAMEWORK

ASSESS AMPLIFY ENHANCE CONNECT



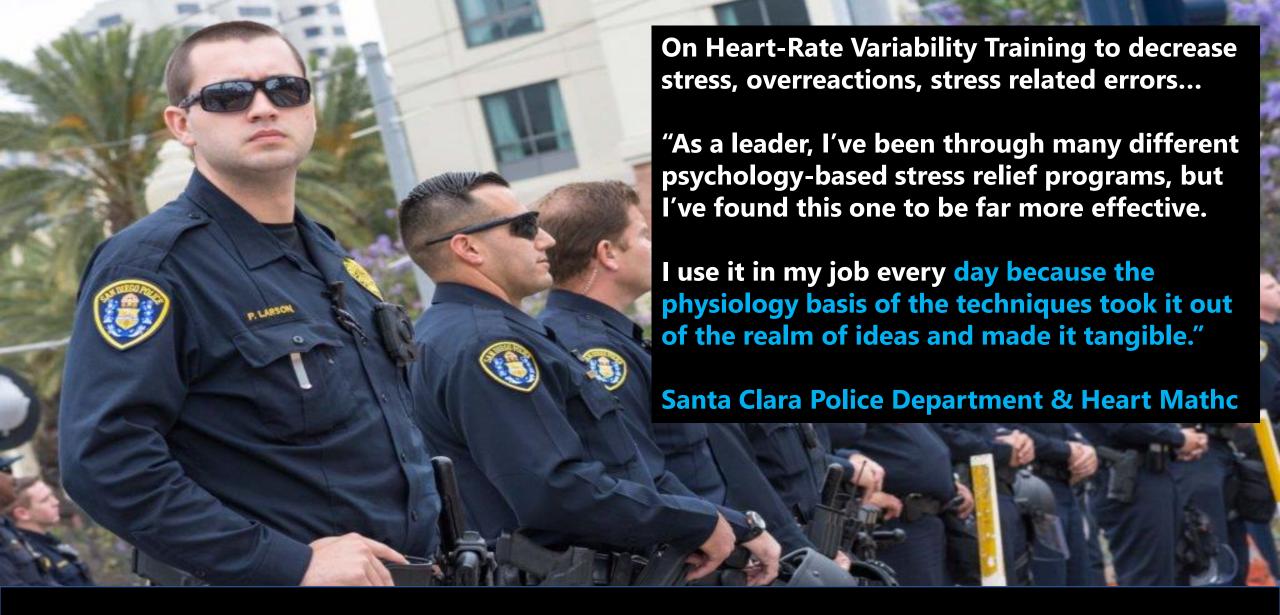
ASSESS

- Know ourselves better
- i.e. Know yourself better than Facebook or your mobile phone does



AMPLIFY

- Amplify humans practicing uniquely human skills
- i.e. Centaur Therapists, Centaur Mentors, Centaur Teaching,
 Future of Knowledge Transfer



ENHANCE

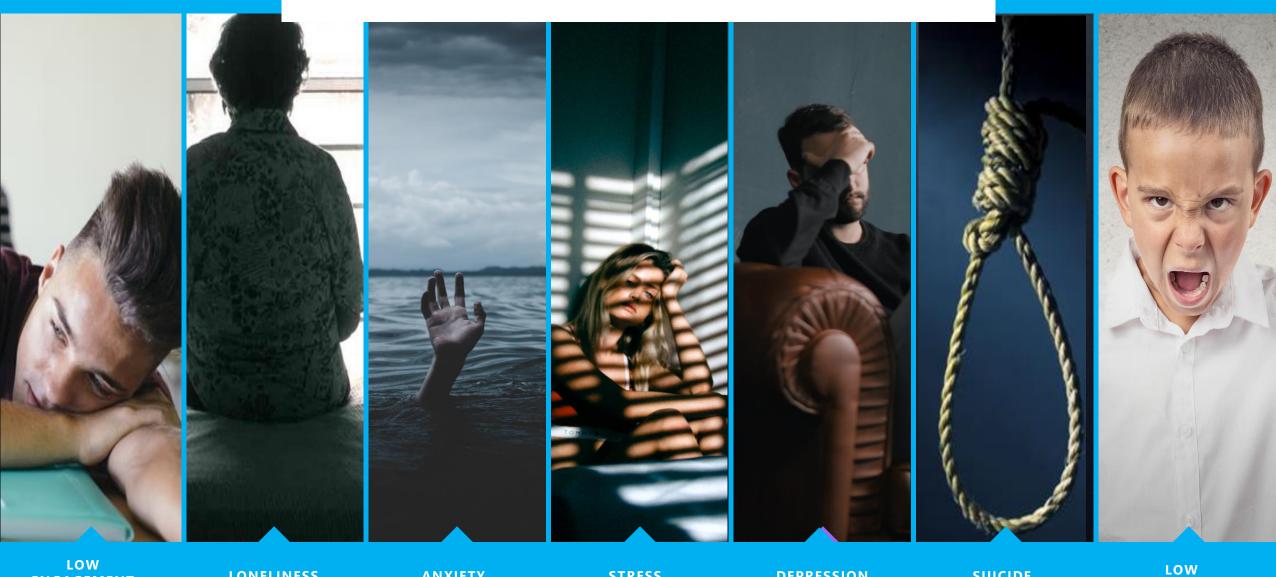
- Make us more aware of ourselves to train skills
- i.e. Self-Awareness, Emotional Self-Regulation, Meaning-Making



CONNECT

- Connect us more deeply
- i.e. Enhance the Social Fabric, Better Teams

REQUIREMENT: A NEW HUMAN AGENDA FOR HEALTH, PERFORMANCE, AND FLOURISHING.



STRESS

DEPRESSION

SUICIDE

SOFT SKILLS

LONELINESS

ENGAGEMENT

ANXIETY

WIDESPREAD **GROWTH AND** USE OF ONLINE COMMUNITIES

 Increased sense of loneliness Increased online connectedness. less RL connection Increased mental stress Increased social stress Increase in unhappiness · Online solutions and communities for everything **TECHNOLOGY** Rise of "Wearable **TRENDS** for Everything" problem solving Enter Headspace App (2013) · Enter Spire, Rise of "App for Everything" Muse, Thync and problem solving many more (2012-now) · Innovate everything mentality (Valley and early adopters and other VC's enter everywhere) Reaching boundaries of traditional self-help, · Tim Ferris begins where is the lasting change?

· Smart phones explode, 2B by 2015, demand content, change behavior

· Increased acceptance of virtual relationships

lifestyles, good and bad

· Enter Neurograming

+ Health Outcome

+ Games 2013)

Conference (Mindtraining

· Rise of big desire for

non-Pharma solution

to meditate (2014) Hacking Meetup (2014)

· Acceptance of self-change · Rise of human

· Rise of 4 hour work week

Enter Consciousness

standard

DESIRE FOR

REAL HAPPINESS

(happiness)

DESIRE FOR

RESULTS IN

(happiness)

· Increased consumption of

micro interactions vs. RL

· Increased trend towards micro

TRANSFORMATIVE

TECHNOLOGY LAB

@ SOFIA UNIVERSITY

· Sold out TTC

· Hyper competition, need

to have an edge to win

· 1 in 10 Americans on

anti-depressants

· Increased attention

· Enter Wisdom 2.0 (2010)

ENTER

(2014)

· Enter Zen Friend

One Earth, Bridgebuilders

· Tim Chang, JAZZ, conference (2015)

& many more (2014)

fragmentation

consumption for dopamine high

PROLIFERATION

OF MOBILE

COMMUNITY

AND MICRO

CONTENT

· World of Warcraft, Online Games & Facebook shift connection online "Always On, Always Connected"

of virtual support

ACCEPTANCE

OF ONLINE

EVERYTHING

(adoption)

· Enter Flow Genome Project

· Seattle Seahawks win

Superbowl (2013), use

meditation, more high

performance teams adopt

then team-hacking

Rise of productivity

DEMAND FOR

TRANSFORMATIVE

TECHNOLOGY

Increased use of virtual counseling

and personal development

Deep therapeutic work moves

groups/serious health outcomes)

online/skype (for distance/

- Increased acceptance
 - & mind-training · Increase in online DIY communities around human potential: physical (extreme sports) & psychological

(PNSE and TCDS etc.)

· Surge in instances of PNSE with

online sharing (4 min mile effect)

DESIRE

FOR SPIRITUAL

DEVELOPMENT

(growth)

people using meditation

Increased access to

info & tools for meditation via online

(Buddha at the Gas Pump, Non-Duality.org)

education (internet, mobile, college costs) · Increased instances of

information entrepreneurs

· Increased acceptance of online

Enter MOOCS (and PR around them) (2012)

· Rise of global middle class and huge demand for education drives West models/demand and growth

PROLIFERATION

MAINSTREAM

ONLINE

EDUCATION

· Buddhist ideas move West,

· Enter MindValley (2003) Rise of experts and teachers online loses some dogma (a la Yoga)

- (YouTube teachers proliferate)
 Transcendental Meditation (TM) grows.
 - · Enter Google (SIYLI 2012) TM goes into schools to decrease violence
 - · Vedic expands via Tom Knowles, · Jon Kabat-Zinn creates MBSR becomes hip via Charlie Knowles & popularizes "mindfulness"
 - · Meditation at Davos, Le Web, · Enter Arianna, HuffPo and TedX and more (2013/2014) Mindfulness bloggers (2012)

ENTER FINDERS **COURSE & WILLOW**

Celebrity Biz and Culture Meditators proliferate (Oprah, Ray Dalio, Loic Le Meur, Russell Simmons, etc.)

Dan Harris writes 10% Happier (2014)

Sam Harris writes · Rick Hanson writes

Buddha's Brain (2009)

· Stuart Hameroff

research @ UoA

consciousness

GLOBALIZATION TREND & CULTURE

(2014)Insurance companies

begin to cover & HR depts, to offer

Enter The Path, Ziva & Unplug (2014)

/mindfulness and health

in public

Increased specific

programs (2012) studies on Happiness

 J. Brewer mindfulness study @ UMass

G. Dietsch 1st QEEG (1932)

Adam Gazzaley creates

Glass Brain @ UCSF · Increase in theories on happiness

Waking Up (2014)

Enter Intel, Aetna

with big corporate

INCREASE IN FORMAL **SCIENTIFIC** RESEARCH

DESIRE PRACTICAL MEDICAL AND STRESS TOOLS FOR POTENTIAL TRANSFORMATION **FULFILLED** (graduate from issues) (health) (performance)

DR. JEFFERY MARTIN PUBLISHES 1ST WORLDWIDE STUDY ON PNSE (2013)

DESIRE

FOR WORKPLACE

MINDFULNESS

(performance)

DESIRE FOR

· Military uses meditation and MBSR to treat PTSD · Rise of self-hacking.

Increase in mindfulness in business Increased awareness of theories & HBR cases Major Studies the benefits of meditation on meditation and neuroscience Increased understanding

(Richard Davidson, Mind Life, Harvard etc.) of brain structure and neurotransmitters

· Increased access to long term meditators from East as subjects

PROLIFERATION SELF HELP

Rise of Tony Robbins. "program & condition yourself" and measurement

& transformation as a

natural part of adulthood

Understanding of "on" versus "in" the brain methods

potential communities,

meditation a key tool

bloggers · M. Csikszentmihalyi studies Flow

· Rise of self-advocacy · Therapy is socially acceptable

INCREASE IN INDIVIDUAL **RESEARCH &** SELF ADVOCACY (due to internet)

TRANSFORMATIVE TECHNOLOGY **ACADEMY**

TRANSTECH

TRANSFORMATIVE TECHNOLOGIES

www.transtech200.com

The TransTech 200 is the annual list of the key innovators who are driving technology for mental health, emotional wellbeing, and human thriving. From well-established individuals and ventures to those who are in the process of bringing new advancements forward that will change the world in the months and years to come

While not all of the selections are obvious, every person or company on this list is working on technology that can be used to elevate the mental and emotional capacity of mankind.

WE TRACK 11 TECHNOLOGY AREAS:

- Sensor Tech (Wearables, Hearables, Remote) Environmental)
- Data Tech (Al, Big Data, Real Time Analytics)
- » Neurofeedback Tech (EEG. fMRI)
- Neurostim Tech (tXCS, tRNS, DBS, CNS, TUS
- » Biofeedback Tech (EDA, Heart, Temp, Breath)

- » Biostim Tech (Vagus Nerve, Peripheral Nerves)
- Perception Tech (VR, AR)
- Sleep Tech (Monitoring, Improvement)
- Healthy Spaces Tech (Design, Air, Water, Lighting)
- App Tech (Gaming, Gamification, Apps, Social, Behavior)
- Biotech (Biome, DNA)









\$1.6BN **FUNDING**





ECOSYSTEM

SUPPORTING HARDWARE AND SOFTWARE PLATFORMS

























COMMUNITY ORC

(Source: Crunchbase, Crowdfunding)

CERS LIST

ob Johansson mes Norris mie Wheal ay Gunkelman ay Sanguinetti Jay Vidyarthi leanette Lorme Jeffrey D Thompson Jeffrey Thompson Jeremy Bailenson less Ghannam lim Kleiber Joel F. Lubar

John Gruzelier John Mekrut Ion Cowan Ionathan Robinson Juan Acosta-Urguidi lud Brewer Judith Pennington lustin Riddle Leslie Deane Roth Lincoln Nguyen Linda Stone Mark Alexander Mary Lou Jepsen

Mel Slater Richard Harvey Mikey Siegel Robert Thatcher Ming Zher Poh Rosalind Picard Mitch Altman Sanjay Manchanda Ofer Leidner Sean Dae Houlihan Paul I. Mills Seung-Schik Yoo Peter Freer Siegfried Othmer Sigi Hale Phillip Alvelda Rafael Calvo Simo Järvelä Raleigh Duncan Steven Vasquez Ramez Naam Stuart Hammeroff Renee DeVere Sue Othmer Richard Gervirtz Tiff Thompson

Tim Ferris Tom Insell Tom Murray Vince Clark Watson Xi William Croft Zoran Josipovic

UP & COMING LIST



NOTABLE MENTION LIST



THE TRANSFORMATIVE TECH MARKET: A HIDDEN MULTI TRILLION DOLLAR CATEGORY

| COST OF US STRESS (\$300BN) | COST OF LOW EMPLOYEE ENGAGEMENT (\$550BN WW) | MEDITATION \$1BN US | PREVENTATIVE HEALTH \$534BN WW | WELLNESS REAL ESTATE \$118.6BN WW |
|---|--|---|---------------------------------------|--|
| DEPRESSION, STRESS, & ANXIETY DRUGS \$22BN WW | WORKPLACE WELLNESS \$43.3BN US | NEUROTECH \$8.4BN WW | SLEEP TREATMENT \$50BN WW | WELLNESS TOURISM \$563.2BN WW |
| MENTAL HEALTH TREATMENT \$89BN US | CORPORATE TRAINING \$360BN WW | WEARABLES 80MN Units WW (18.4% CAGR) | FITNESS & MIND/BODY \$542BN WW | HEALTHY EATING & WEIGHT LOSS \$647BN WW |
| ADDICTION TREATMENT \$35BN US | PERSONAL DEVELOPMENT \$10BN US | EMOTION DETECTION RECOGNITION \$6.72BN | ALTERNATIVE MEDICINE \$199BN WW | YOGA \$27BN US |

- •https://www.globalwellnessinstitute.org/wellness-now-a-372-trillion-global-industry/
- http://www.neurotechreports.com/pages/execsum.html
- https://www.businesswire.com/news/home/20170505005558/en/79.85-Billion-Sleep-Aids-Market-Product-Sleep
- https://www.forbes.com/sites/daviddisalvo/2015/08/06/how-the-sleep-industry-is-making-billions-from-your-lac
- shuteye/#5696984c2542
- https://www.ibisworld.com/search/default.aspx?st=sleep
- •https://www.alliedmarketresearch.com/sleen-aids-market

- •https://www.inc.com/ariana-ayu/the-enormous-cost-of-unhappy-employees.htm
- https://www.marketsandmarkets.com/Market-Reports/emotion-detection-recognition-mark
- 23376176.html?gclid=CjwKCAjwypjVBRANEiwAJAxllgGMll4eTmKzxriDf_jqsl2EWT9W0PK0XdrhFlBRY2OiksgHFu68qBo0 OQAVD_BwE
- https://www.idc.com/getdoc.isp?containerId=prUS4340851
- https://www.prnewswire.com/news-releases/corporate-training-market-to-grow-nearly-11-cagr-to-2020-01841585.html
- https://blog.marketresearch.com/whats-next-for-the-9-9-billion-personal-development-industr