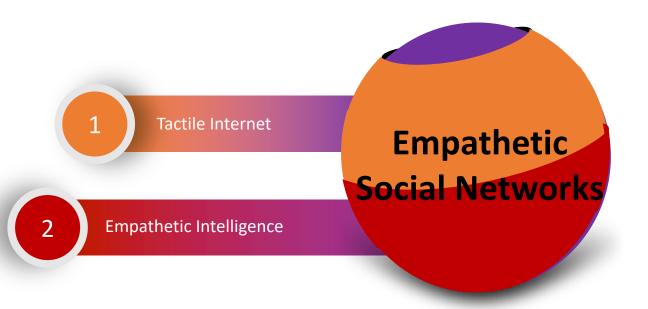
6G: The Age of The Empathetic Intelligence

Neeli R. Prasad, Ph.D. CTO, SmartAvatar B.V.

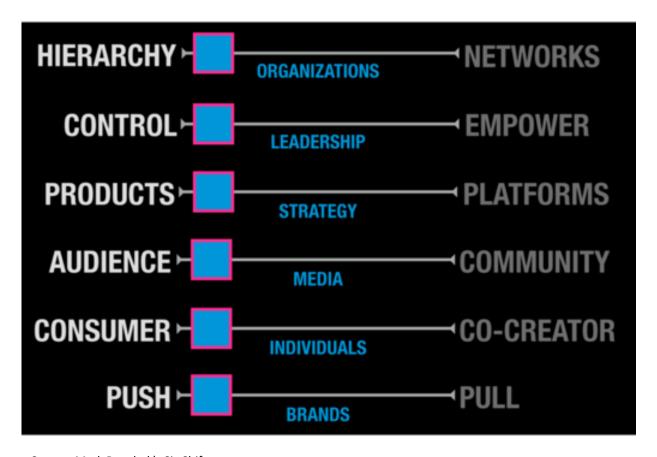


Empathic Intelligence in Social Networks

Interaction between human and applications with empathy that gives a feel & touch of a real-life world experience.



Social Networks



Source: Mark Bonchek's Six Shifts



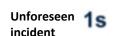
Future of Social Networks

- 2019: around 2.77 billion people started using social media. With smartphones and internet connectivity becoming cheaper and easier to access, expect to see these numbers grow even higher.
- Prediction: By 2021, more than 3 billion people will be using social media.
- Potentional for marketing to reach a massive and engaged audience.
- With COVID-19: connectivity and reach to family, friends and colleagues.
- This is not just limited to the popular social media sites like Facebook, Twitter, and Instagram.

Social Network of Things

Enabling real-time haptic interaction with visual feedback, with systems supporting not just <u>audiovisual interaction</u>, but also that involving <u>robotic systems</u> to be controlled with an imperceptible time-lag.







Auditory 100ms



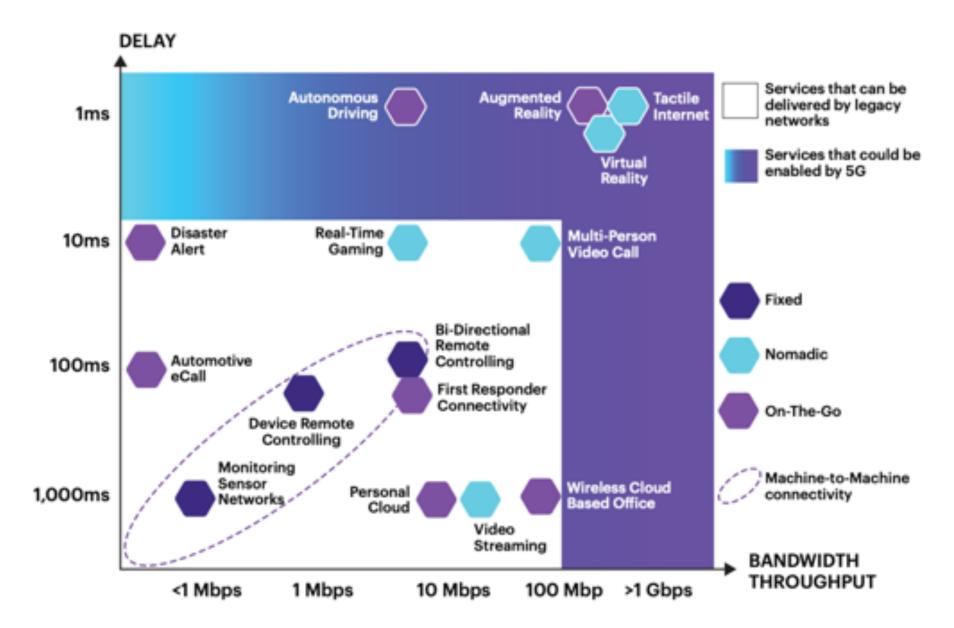
Visual 10ms



Haptic 1ms sensation

Haptic technology that can create an experience of touch by applying forces, vibrations or motions to the user.

Enable Innovative Applications

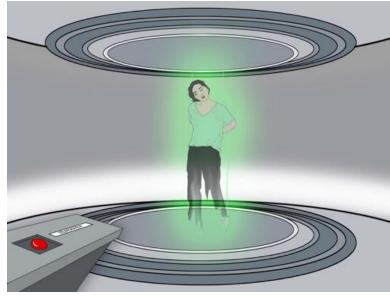




Healthcare



Teleporting





Virtual Makeup



Haptic e-Commerce

Applications Enable by Social Network of Things

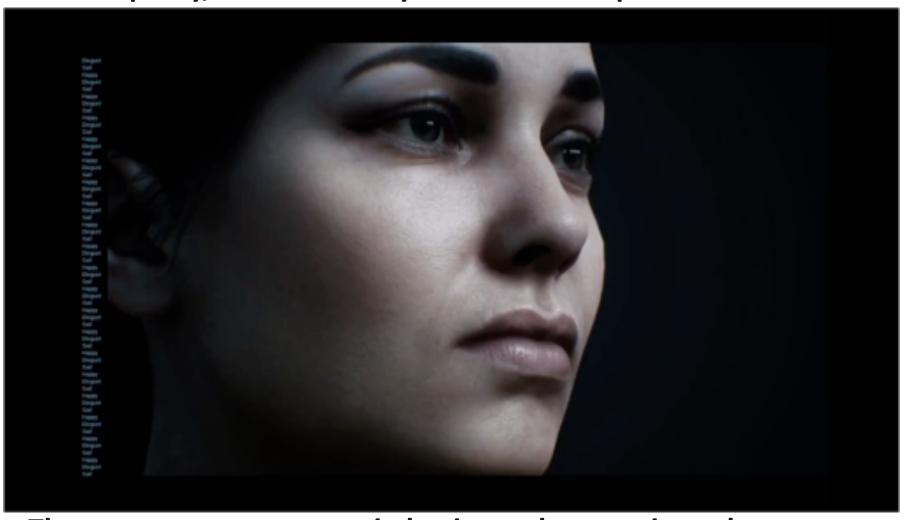


Exoskeleton

X You Excc

Empathetic Intelligence?

In The Age of the Empathy, Networks & Systems Must Empathize with Human Emotions



There are many use cases in business that require at least some demonstration of empathy

Use Cases: Empathetic Intelligence

Empathetic AI Reader

Empathetic AI Reader can read the book with tone and inflection much the same way you would read the book to your children. When you are away on a business trip, your children will still be able to enjoy memorable storytime moments.

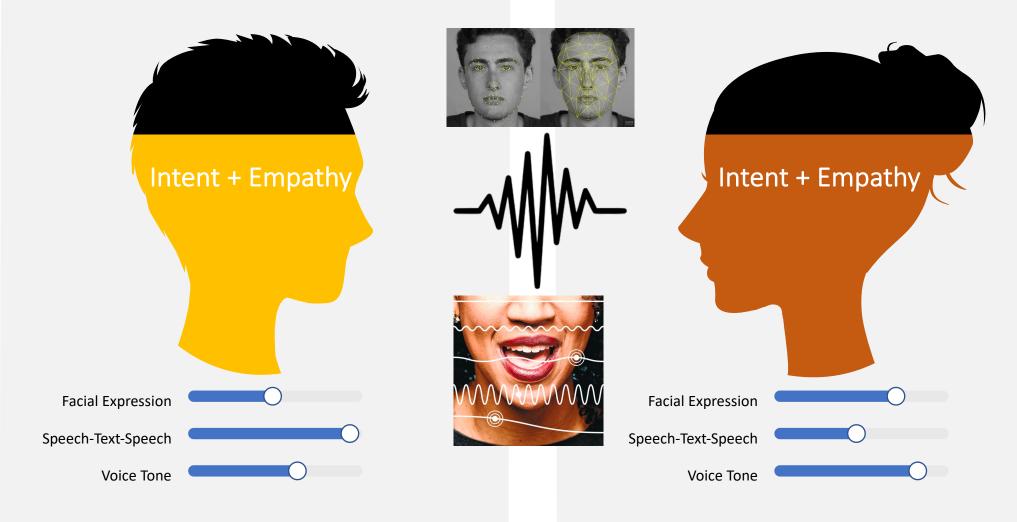


Customer service chatbot

This chatbot will be able to speak the scripted questions with tone and inflection as a person would. Then, based on the client's responses, the empathetic chatbot will be able to sense complex emotions such as frustration.

Based on the quality of the emotional experience of the customer, the chatbot can decide to forward the customer on to a live service agent when the customer is unusually frustrated.

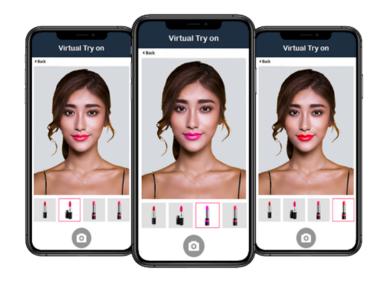
Empathetic Intelligent: Facial Expression, Text & Voice Tone



Empathetic intelligence will be able to express the emotions that were used to make empathetic decision. This will improve the chance of gaining wider human acceptance.

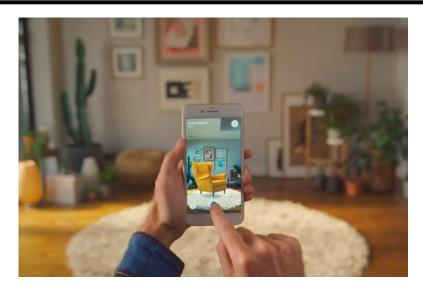
Empathetic Social Networks & Systems



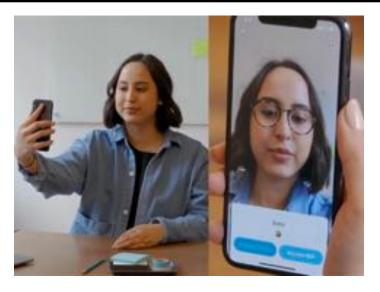




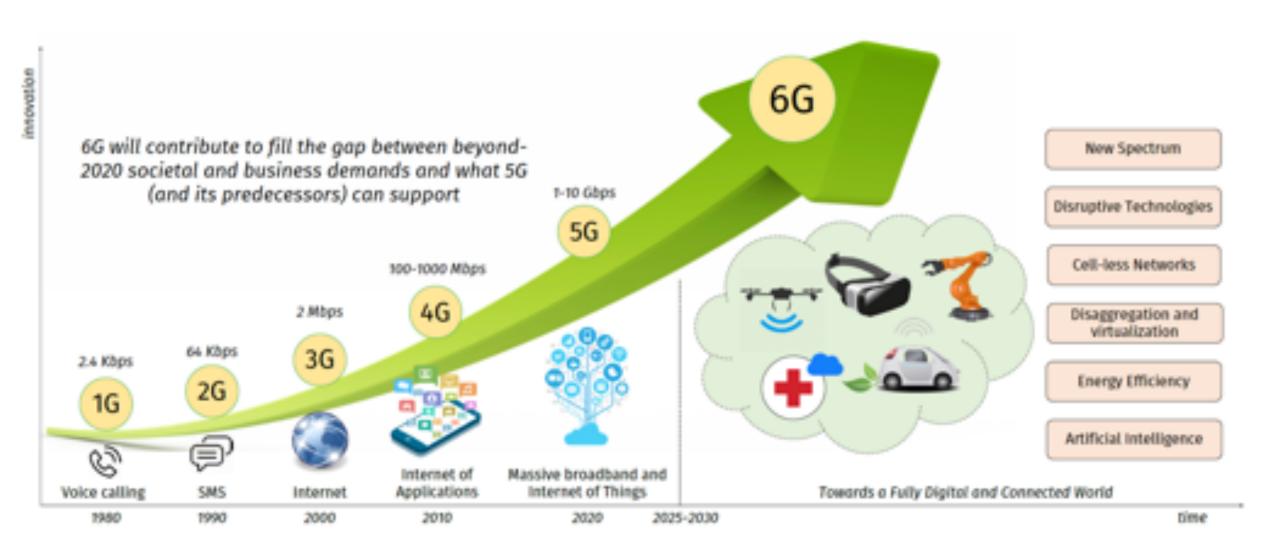








Evolution from 1G to 6G: Networks w/o Borders





Wou. Exec

Empathetic Networks & Systems

Networks & Systems for industry 4.0 and beyond "the age of intelligence" should incorporate human emotional intelligence with machine intelligence.





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