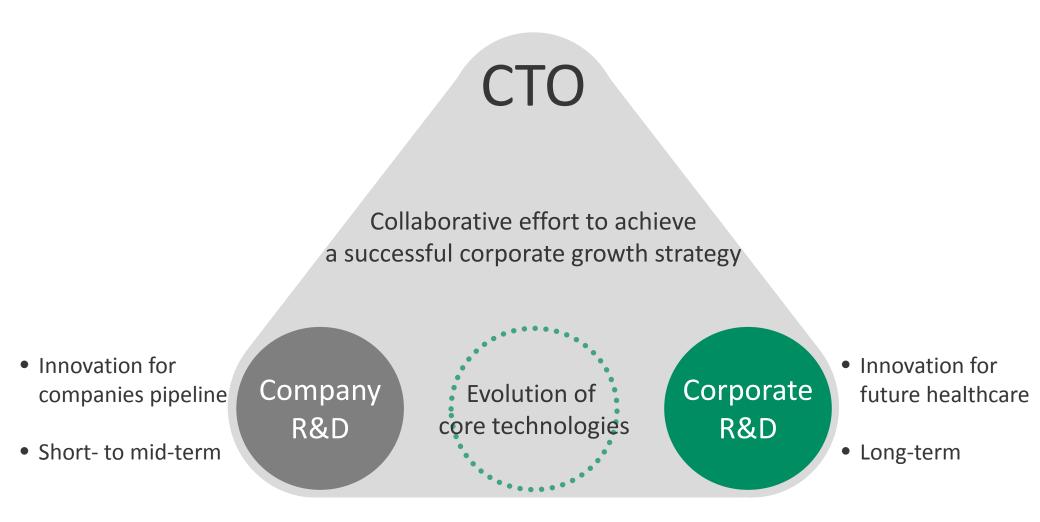
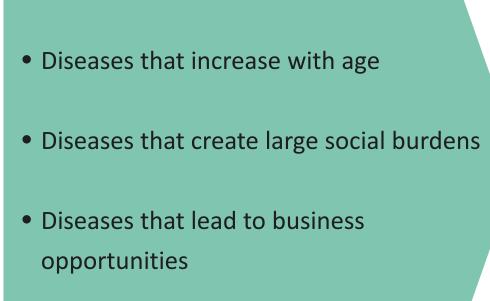
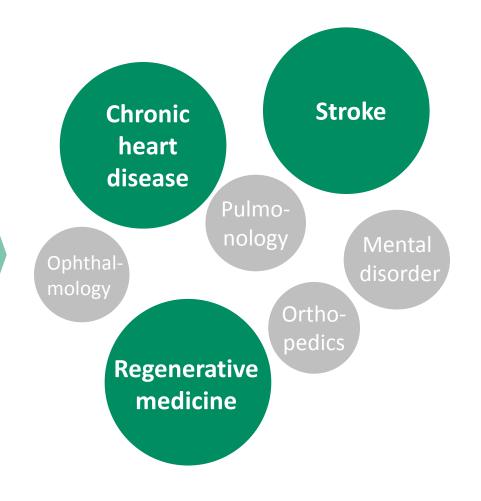
Hiroaki Kasukawa, Ph.D. Chief Technology Officer









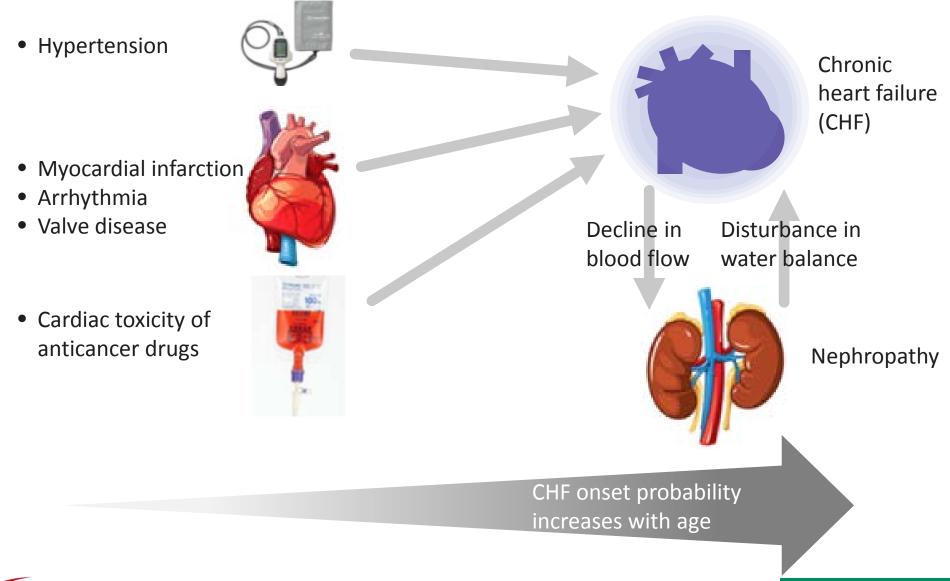




Chronic Heart Failure (CHF)

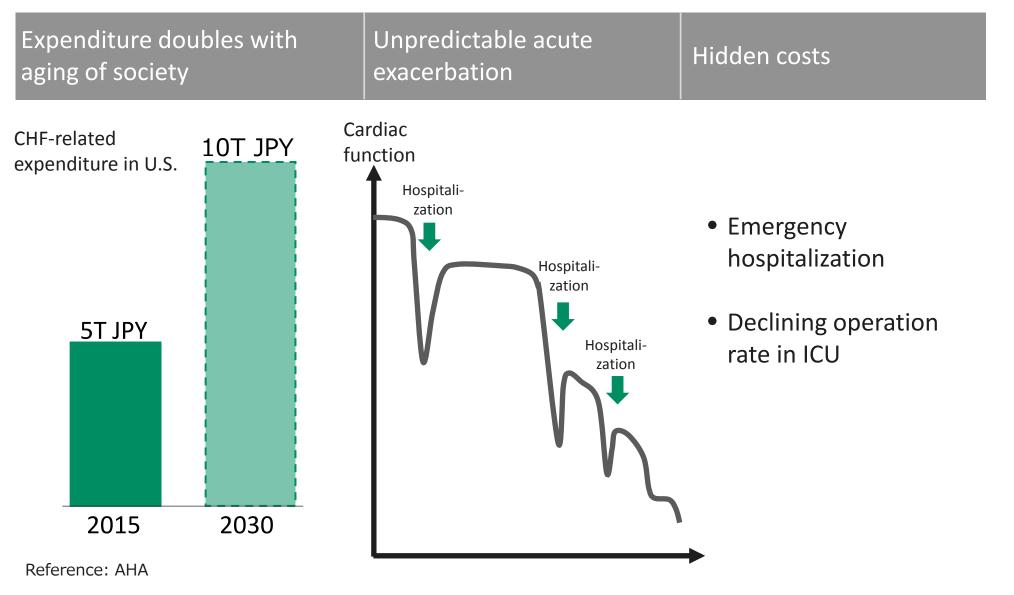


CHF Is Not Prevented by Treating Just One Disease



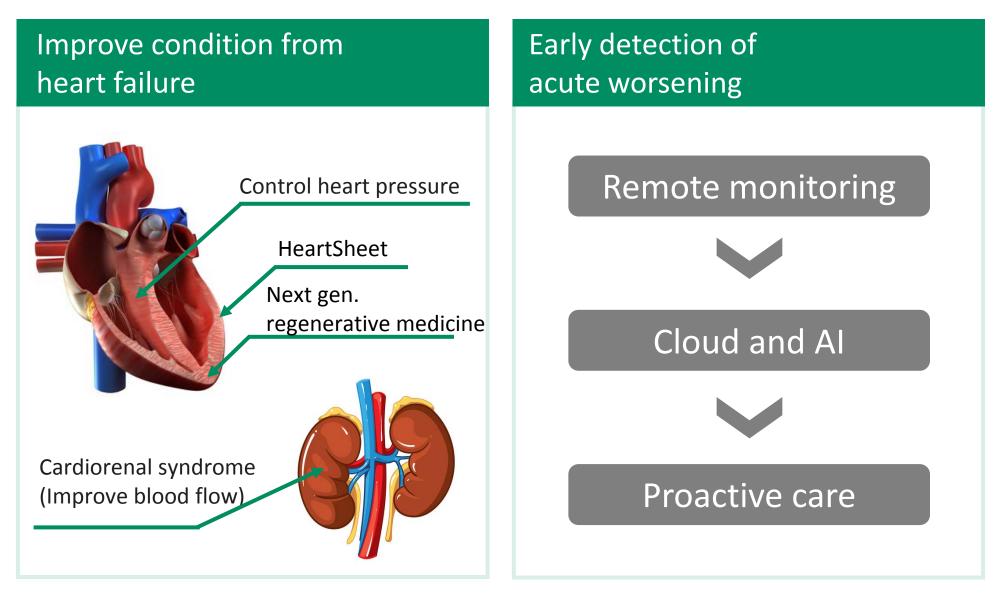
Dec 12, 2016

Repeated Emergency Hospitalization in CHF





Improvements after Heart Failure and Detection of Acute Worsening





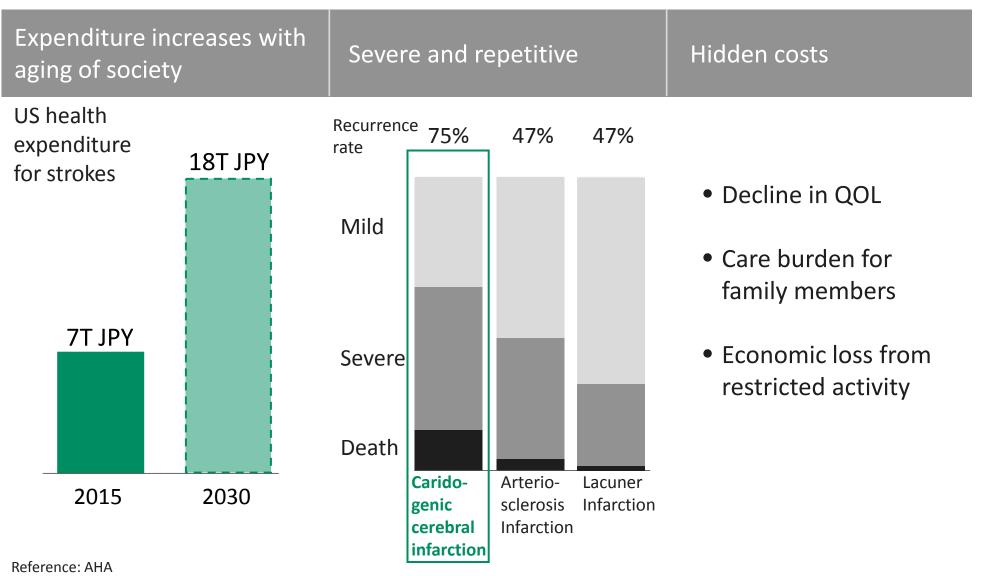
Cardiogenic

Cerebral

Infarction



Cardiogenic Cerebral Infarction Tends to Have Severe Outcomes

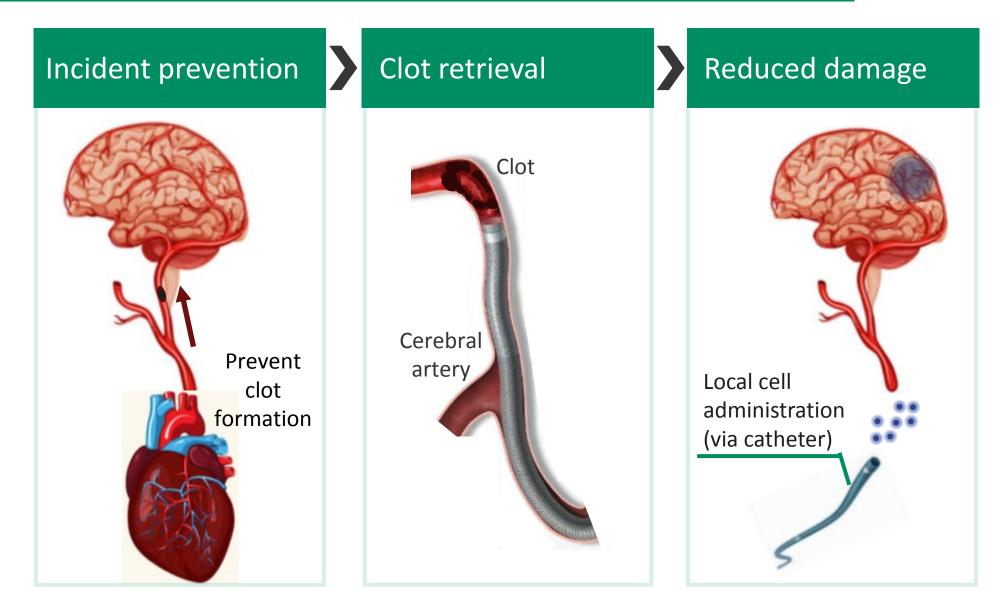


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Okumura et. al., Jpn J. Electrocardiology 2011;31:292, Hisayama Town Rsearch

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Incidence Prevention and Reduced Damage from Aftereffects





Regenerative Medicine

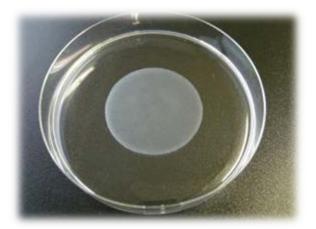


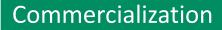


Evolution of Regenerative Medicine toward Commercialization

HeartSheet

- Official approval
- Expanded indications





- Allogenic cells
- High volume production

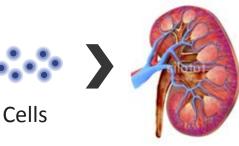


Expansion to other diseases

Candidate diseases

- Diabetic nephropathy
- Peripheral artery disease
- Stroke
 - •

i.e., local administration through renal artery

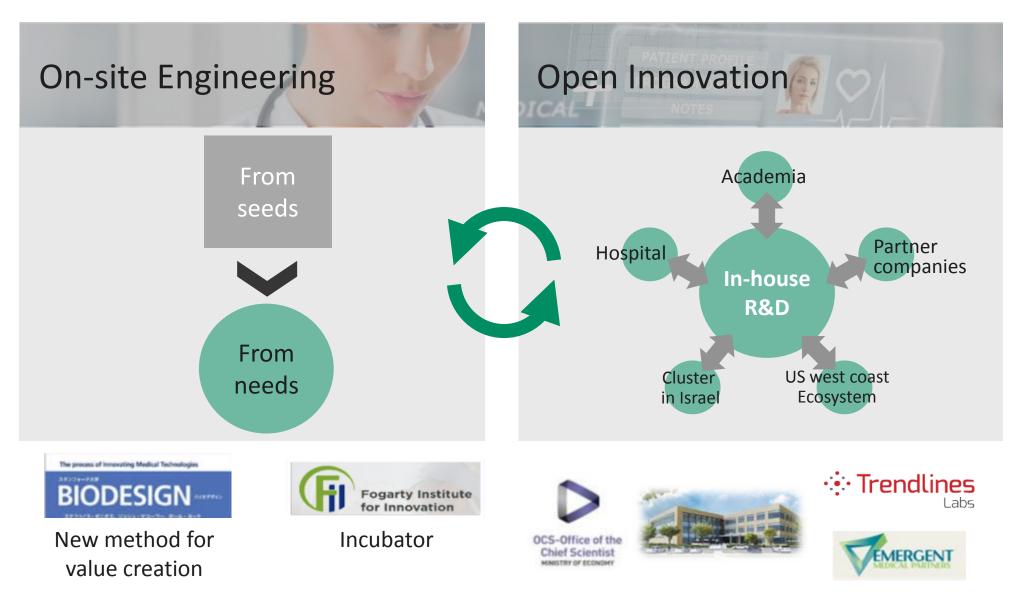




Transforming Engineering



Collaborative Effort in On-site Engineering and Open Innovation





Innovating at the Speed of Life



- R&D expense Double digits growth
- Engineers Increase 40% from current (1,200)
- Active external investment



Contribute to future of healthcare with significant social impact





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The market share information in this presentation is partly derived from our own independent research.