



Engineering Biology

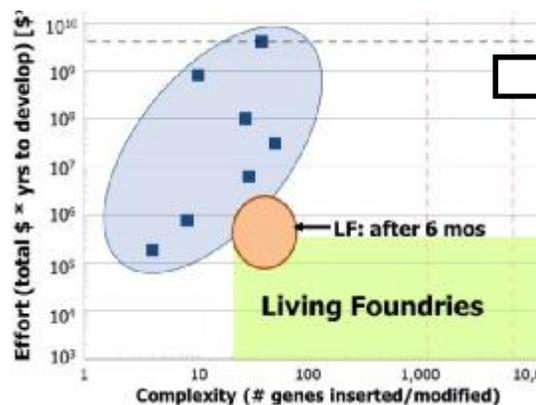
Design and construct genetic pathways, networks and systems to harness the powerful synthetic and functional capabilities of biology.



Building a New Technology Base to Enable Transformative Applications

Living Foundries: ATCG

New tools to enable rapid engineering of biology



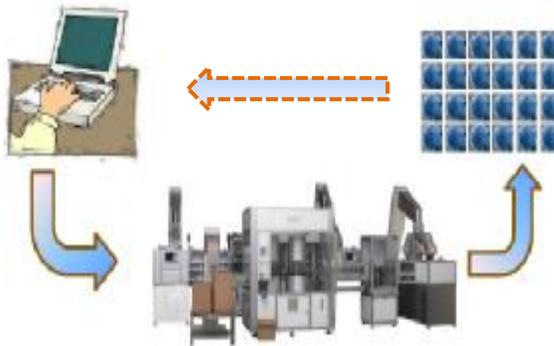
100x faster DBT cycle for engineering biology

~\$35M, FY12-14

Living Foundries: 1KM

Foundries

Enable scale and rapid prototyping of genetic designs never before accessible



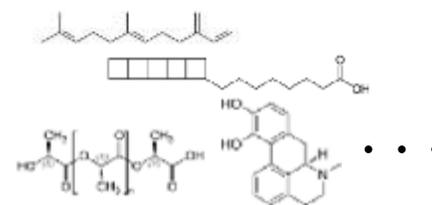
Enable Impossible Projects

~\$115M, FY14-18

Demo New Capability

1000 Molecules

1000 new chemical building blocks for new materials



Fundamental shift in chemical/materials industry

IMPACT:

Open up new avenues for innovation

Enable access/new entrants

Engage and Seed industrial/academic partnerships