

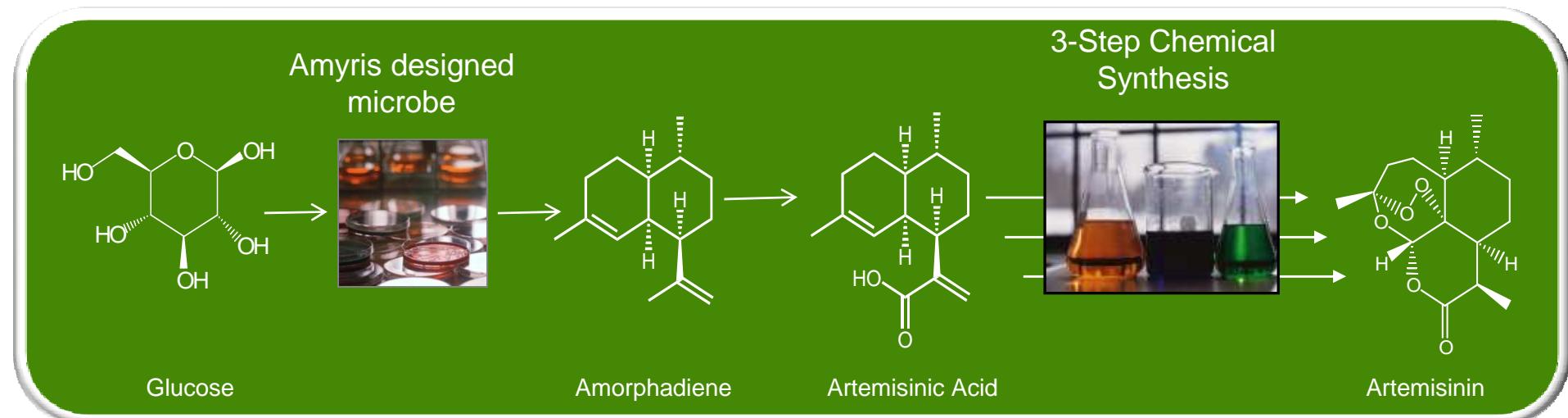


Amyris and Synthetic Biology

July 9th, 2009

Artemisinin Project

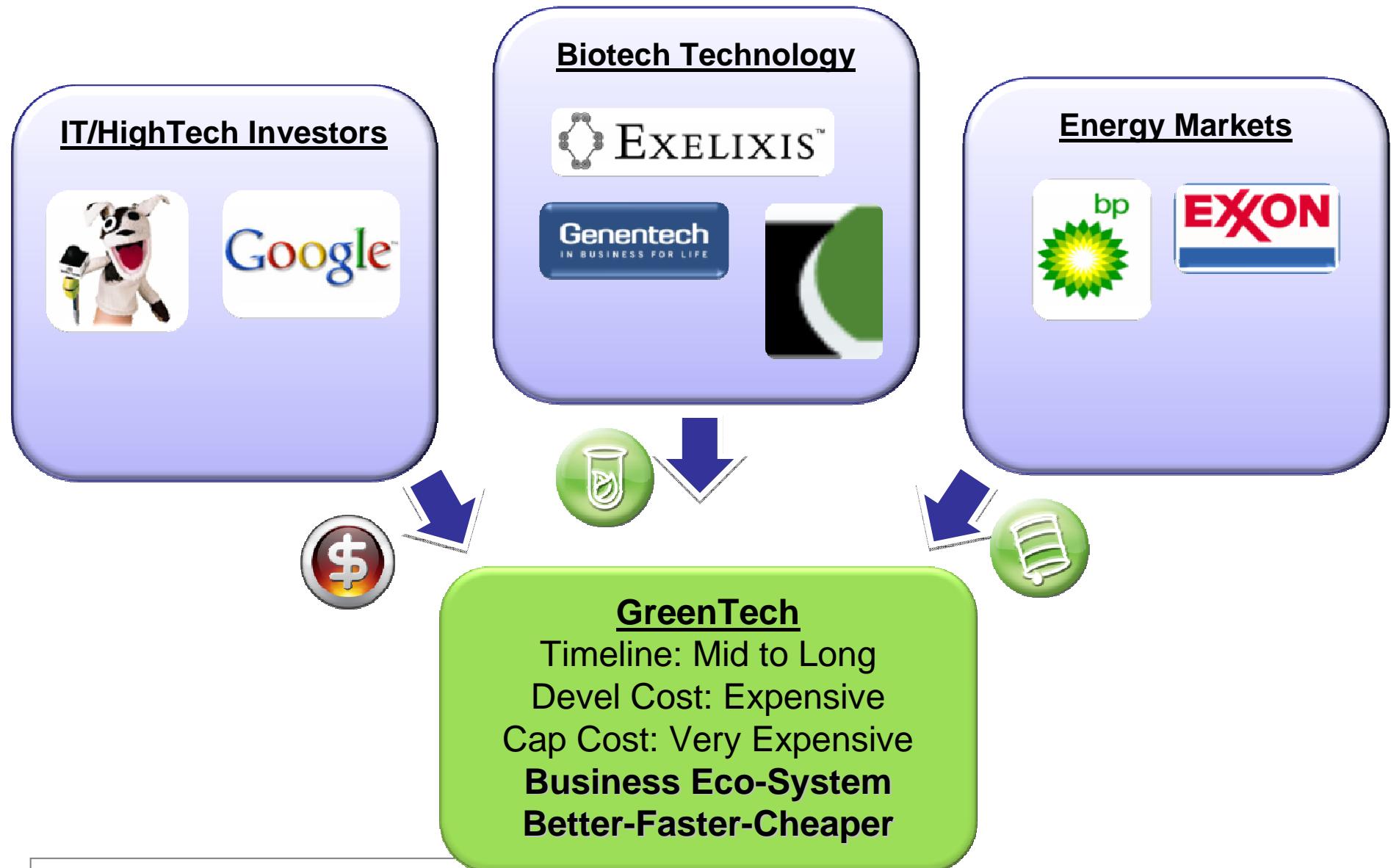
Done but not complete



- 5 year nonprofit project bringing low-cost artemisinin anti-malarials to developing countries
- \$200+MM/year potential savings in drug cost
- Significant lives saved due to scalable supply of less expensive drug

April, 2008 - Partnership with Sanofi-Aventis for scale-up, manufacture, and distribution of microbial artemisinin

The CleanTech Casserole and Synthetic Biology



Amyris Business

Develops and takes to market advanced biofuels



Amyris Fuels, LLC

- Take product from plant gate to wholesaler
- Logistics contracts to facilitate high volume distribution maximizing impact of Amyris renewable fuels

■ Amyris participation



Amyris Biofuels: Develop advanced biofuels using fully integrated scale-up capabilities

Biology Labs



Fermentation



Chemical Processing



Scale-up



Personnel:

187 Full Time Employees

Facilities:

100,000 sqft+ site in Emeryville, Ca

Amyris Technology and Process

New Biocatalysts = New Products



Biomass Production



Corn



Cane



Switch-
grass



Sweet
Sorghum

Harvest

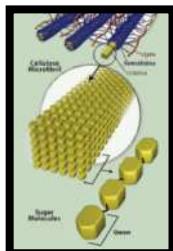
Bio-Product Production



Biomass Processing



Milling



Cellulose
Deconstruction

Microbe
Food

Biofuel Production



Fermentation

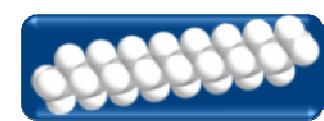
Microbe
Food



Fermentation



Change
the
Yeast to
change the
fuel



Advanced
Hydrocarbon
Biofuels



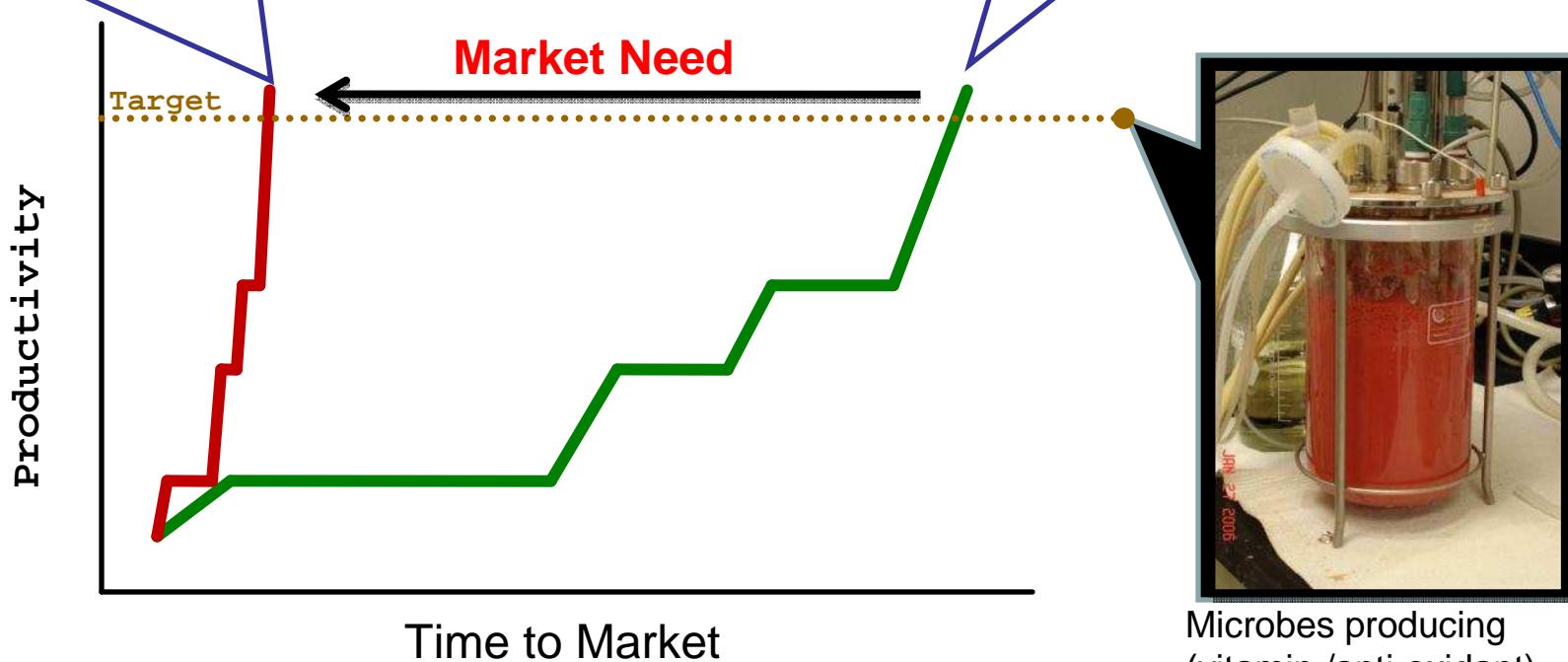
Amyris Technology

Speed is key, The Best Tools will win

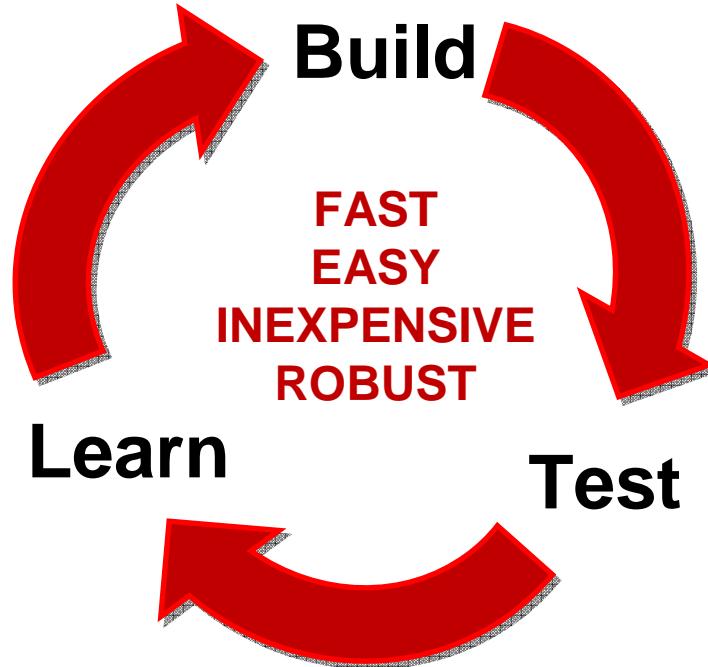


Fermentation-ready microbe construction has been a difficult, expensive and unreliable process

Rapid, High Fidelity microbe construction enables industrial fermentation for chemicals and fuels



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- Each cycle is 4x faster
- Standardized HTP and Fermentation Testing
- 1000x more permutations tested/cycle

- ★ Computer Aided Design (CAD) system to plan



- ★ “Hands-free” automated microbe fabrication



- ★ HTP Screening & Metabolic-Profiling to Test





Thank you
And come visit us in Emeryville

