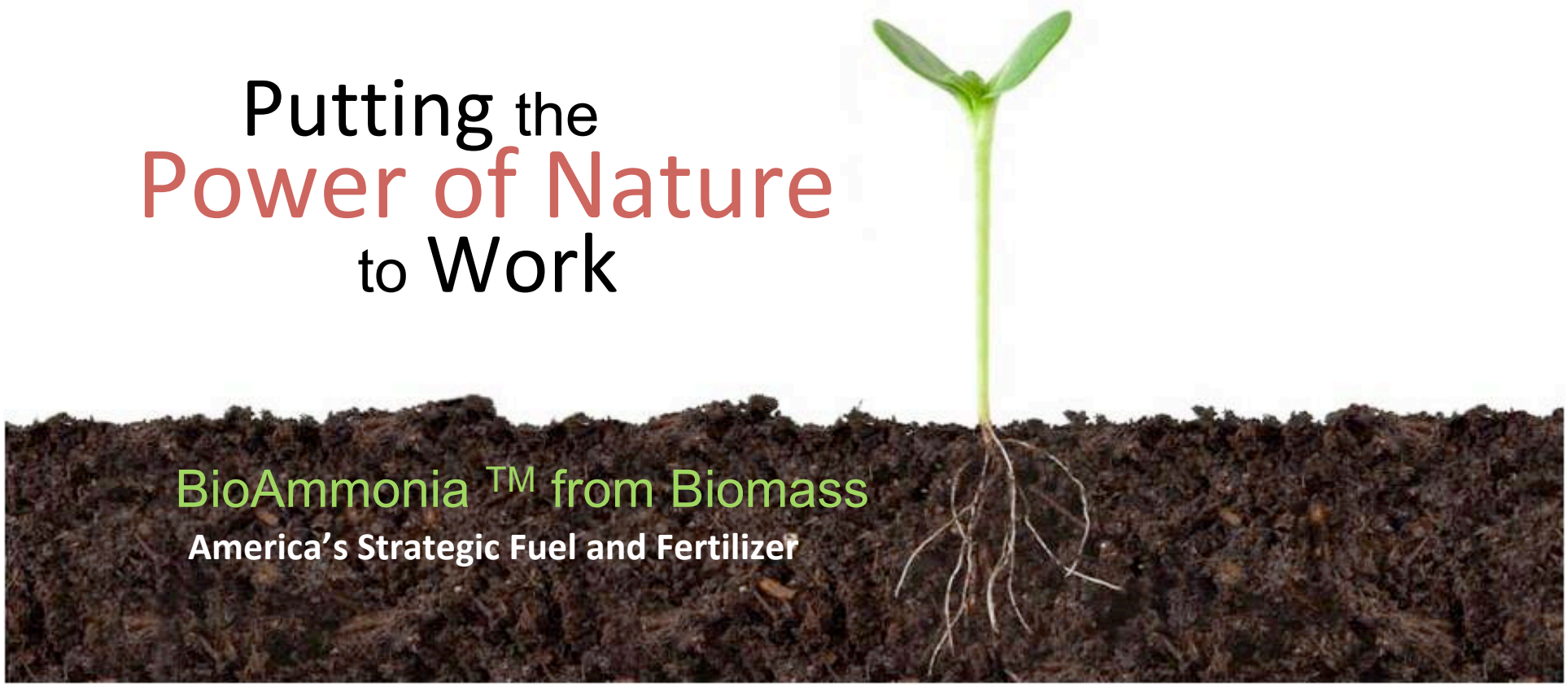
SynGest

Putting the Power of Nature to Work



BioAmmonia ™ from Biomass

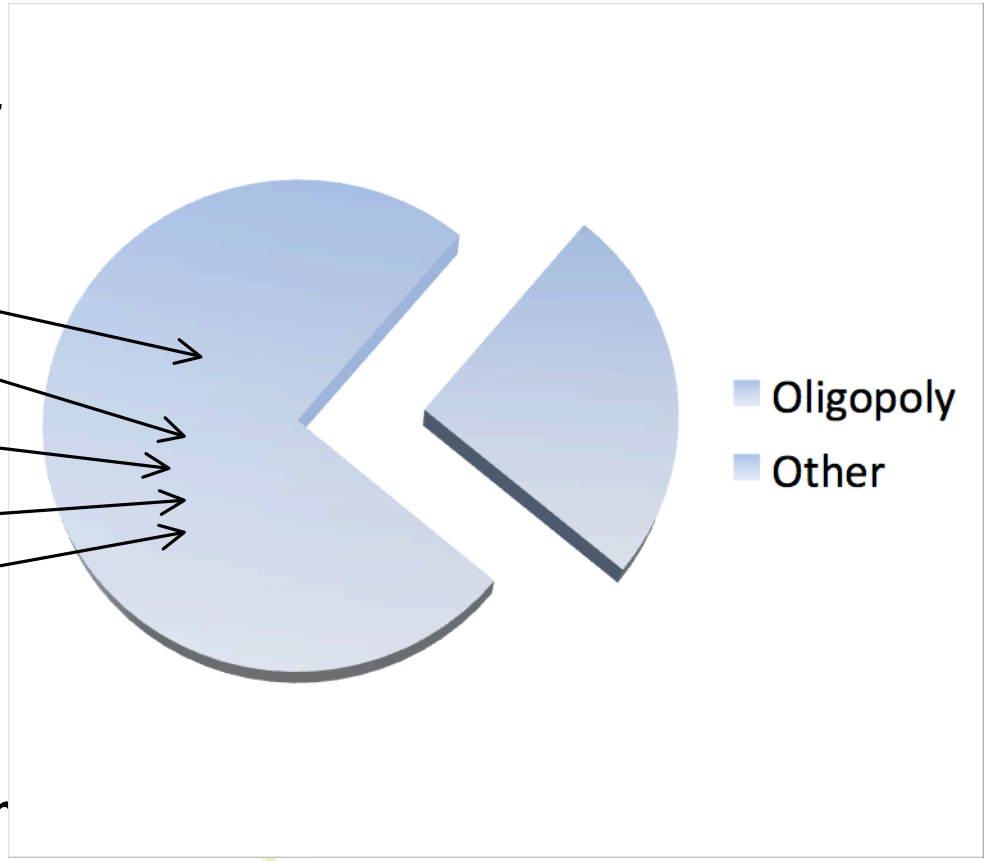
America's Strategic Fuel and Fertilizer

The Problem with Anhydrous Ammonia/Nitrogen

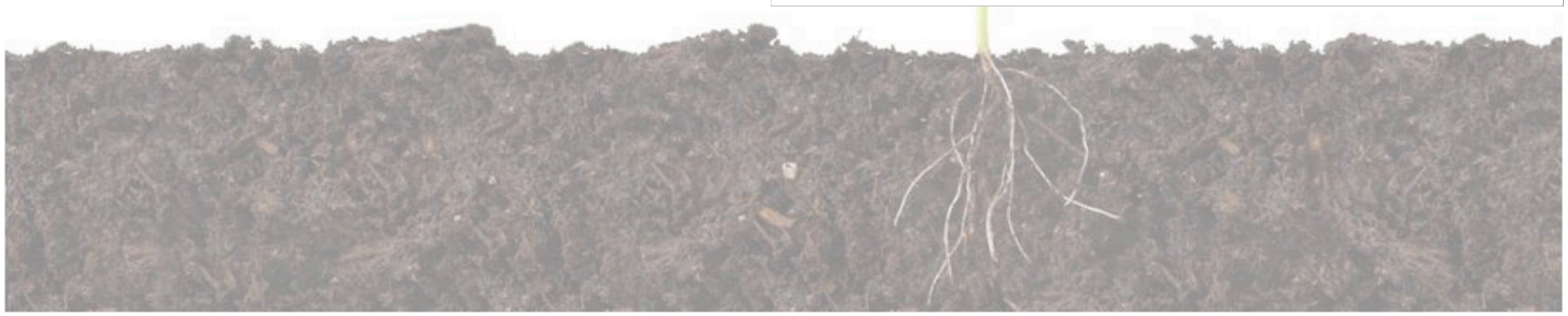
- Expensive
- Volatile Pricing
- Frequent Supply Disruption
- >50% is Imported
- Made from Fossil Fuels

Ammonia Industry Consolidation

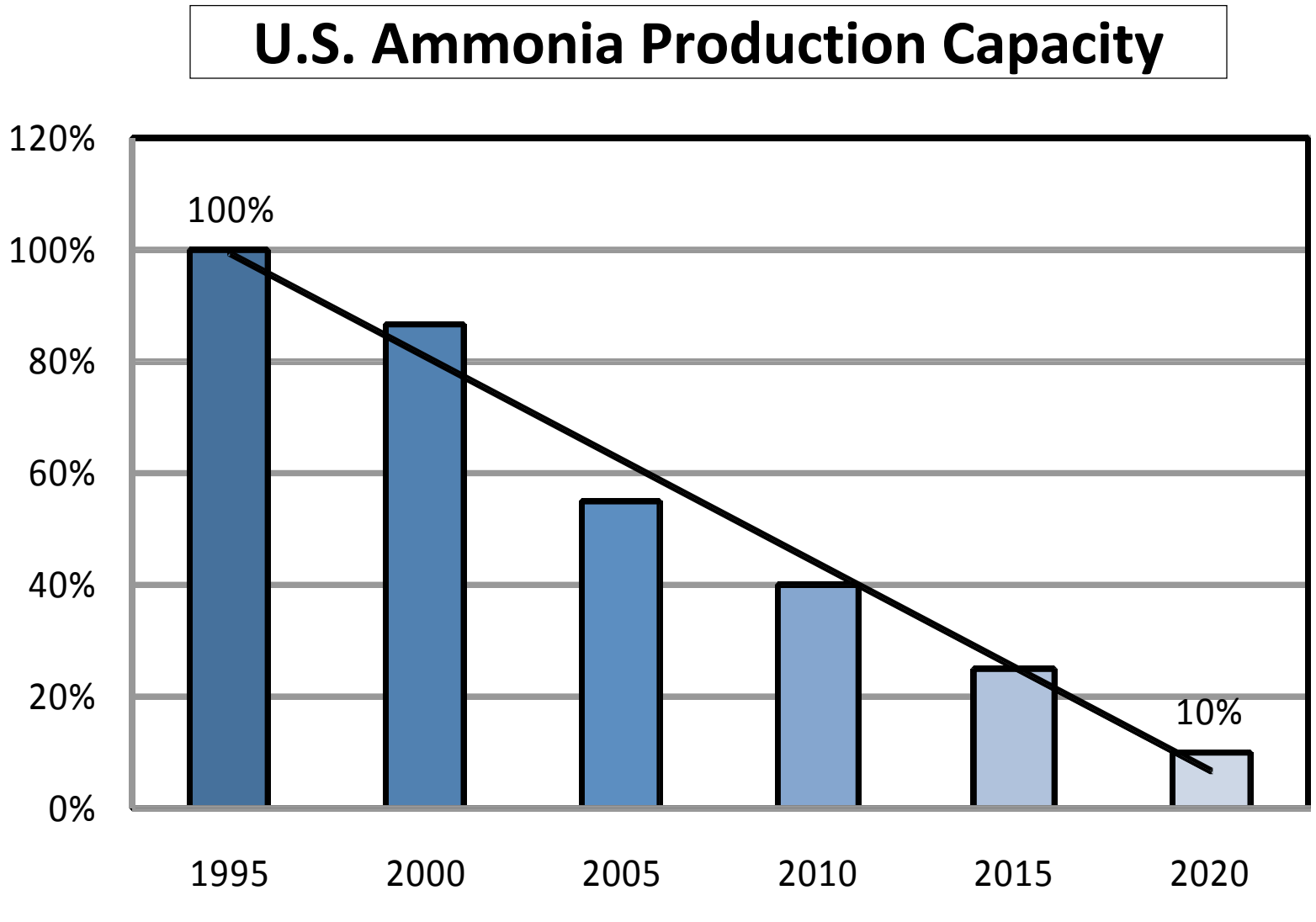
- 5 companies control 75% of
  - Agrium Inc.
  - Terra Industries Inc.
  - CF Industries Inc.
  - Koch Industries Company
  - PotashCorp



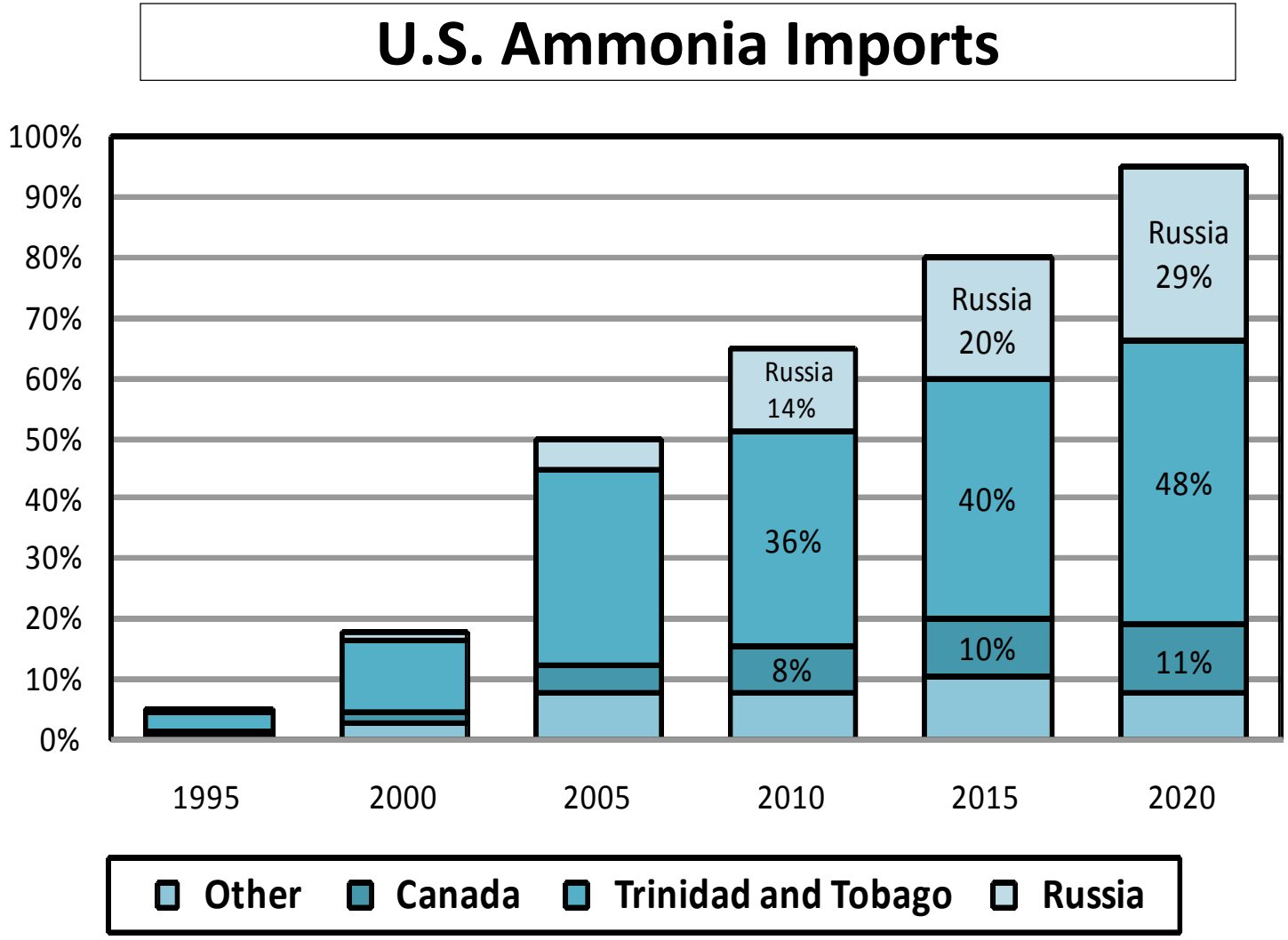
- Oligopolies Are Bad for Farr



Nitrogen Fertilizer – US Industry Decline



Nitrogen Fertilizer – Imports Are Growing



SynGest

The Solution is BioAmmonia

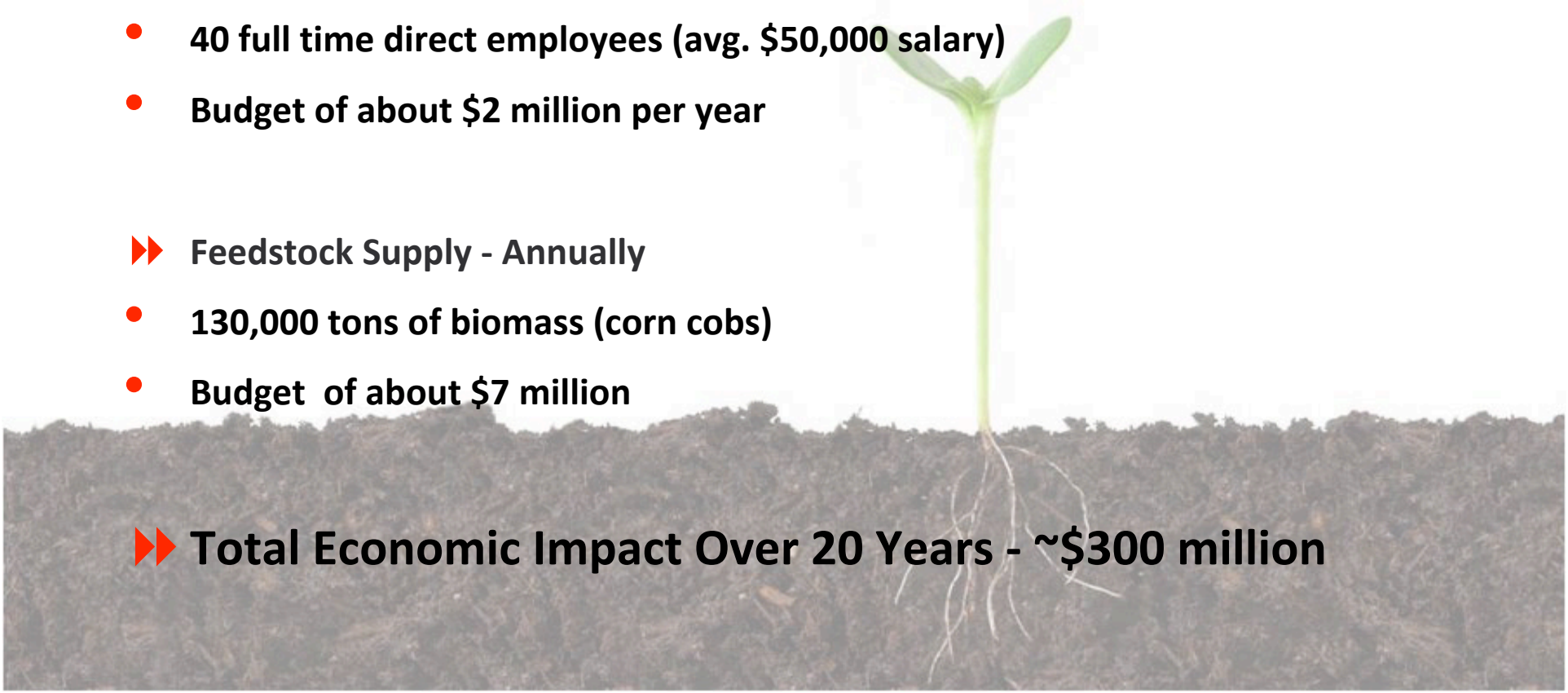
- Made from Unused Crop Residue
- Stable Pricing
- Guaranteed Supply
- Replaces Imports
- Investment / Jobs / Farm Income

Job Creation / New Farm Income

- **Construction Phase**
- 500 construction workers at site
- Budget of about $105 million

- **Operations Phase**
- 40 full time direct employees (avg. $50,000 salary)
- Budget of about $2 million per year

- **Feedstock Supply - Annually**
- 130,000 tons of biomass (corn cobs)
- Budget of about $7 million

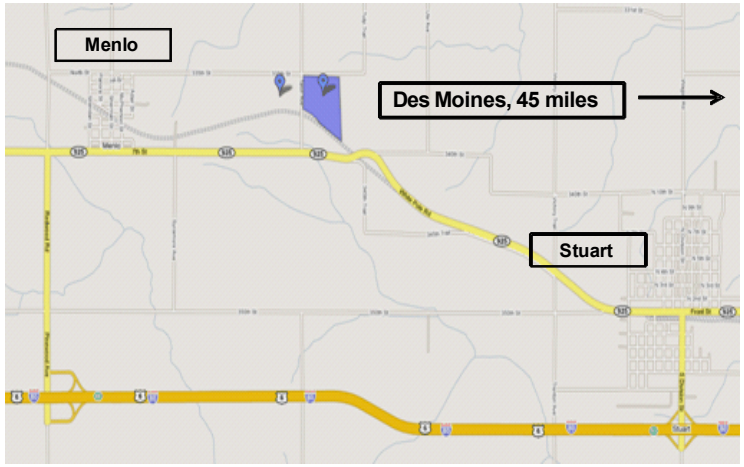


Total Economic Impact Over 20 Years - ~$300 million

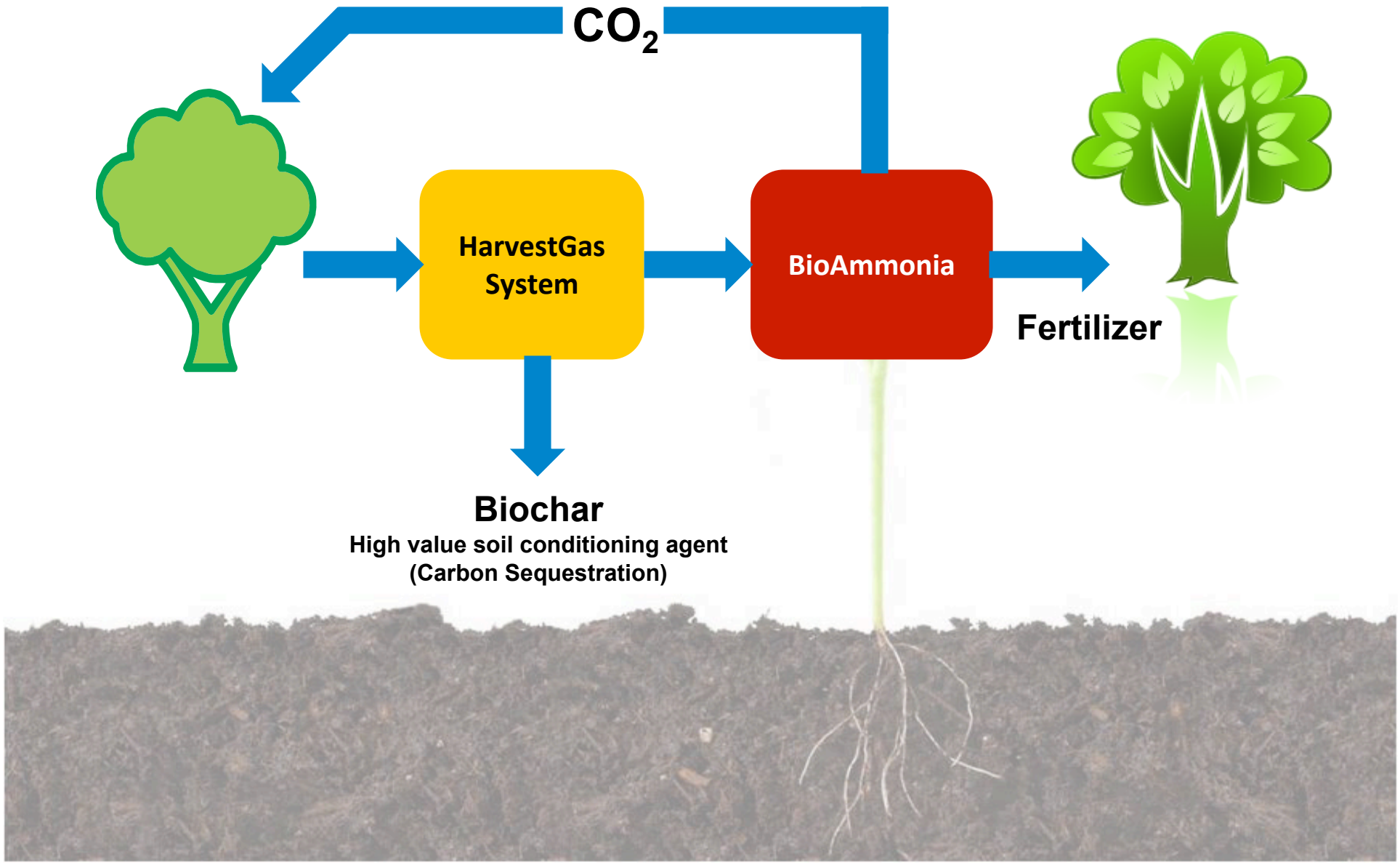
SynGest Menlo LLC/ Proposed First Site

- 3550 Talon Avenue, Menlo, IA 50164
- Option on 75 acres
  - Adjacent to operating ethanol plant
  - Near Interstate 80 (7 miles)
  - Rail access to the site
  - 45 miles from Des Moines

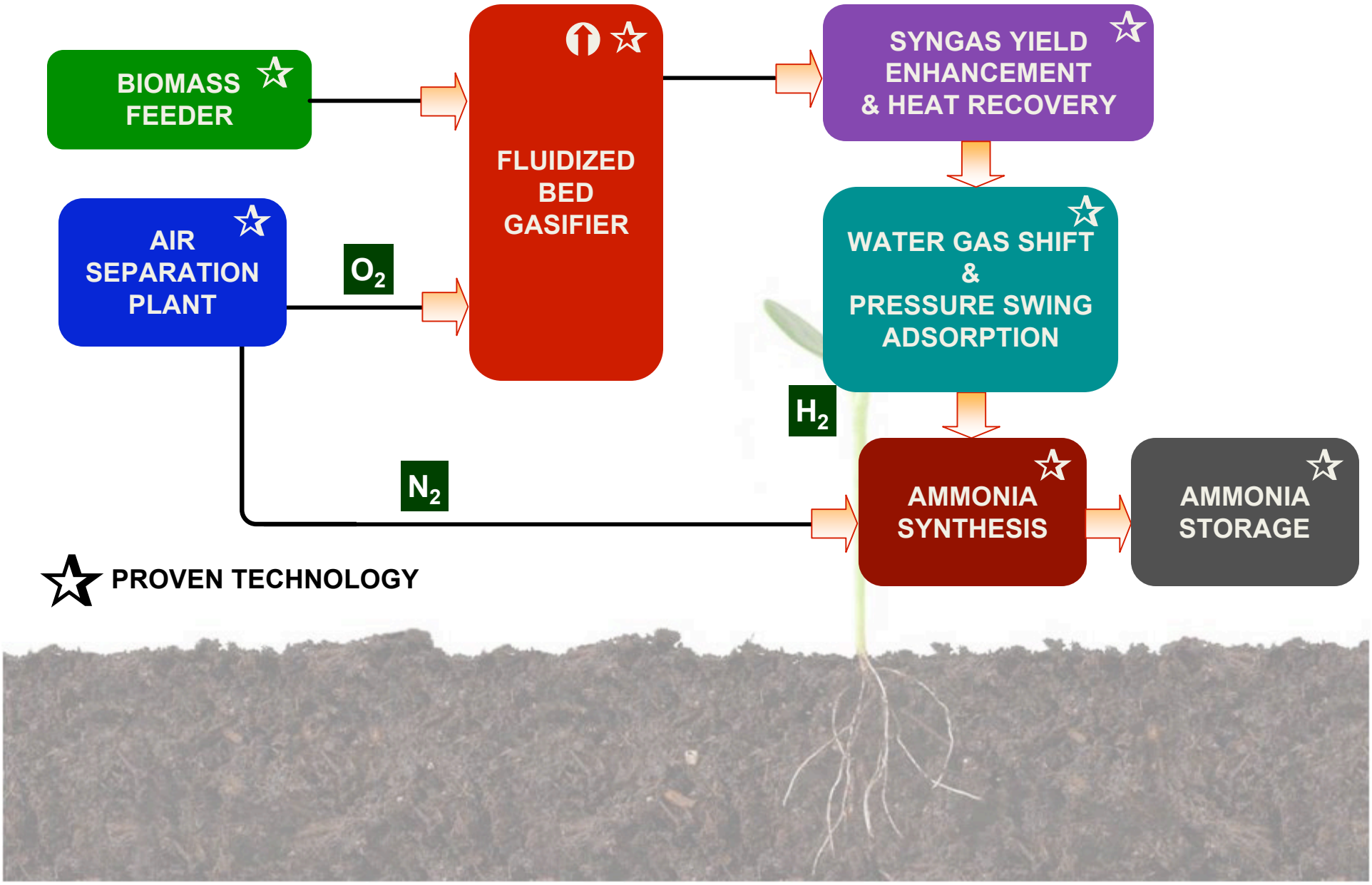
SynGest Proposed Site – Menlo, IA



Biochar makes SynGest Carbon Negative

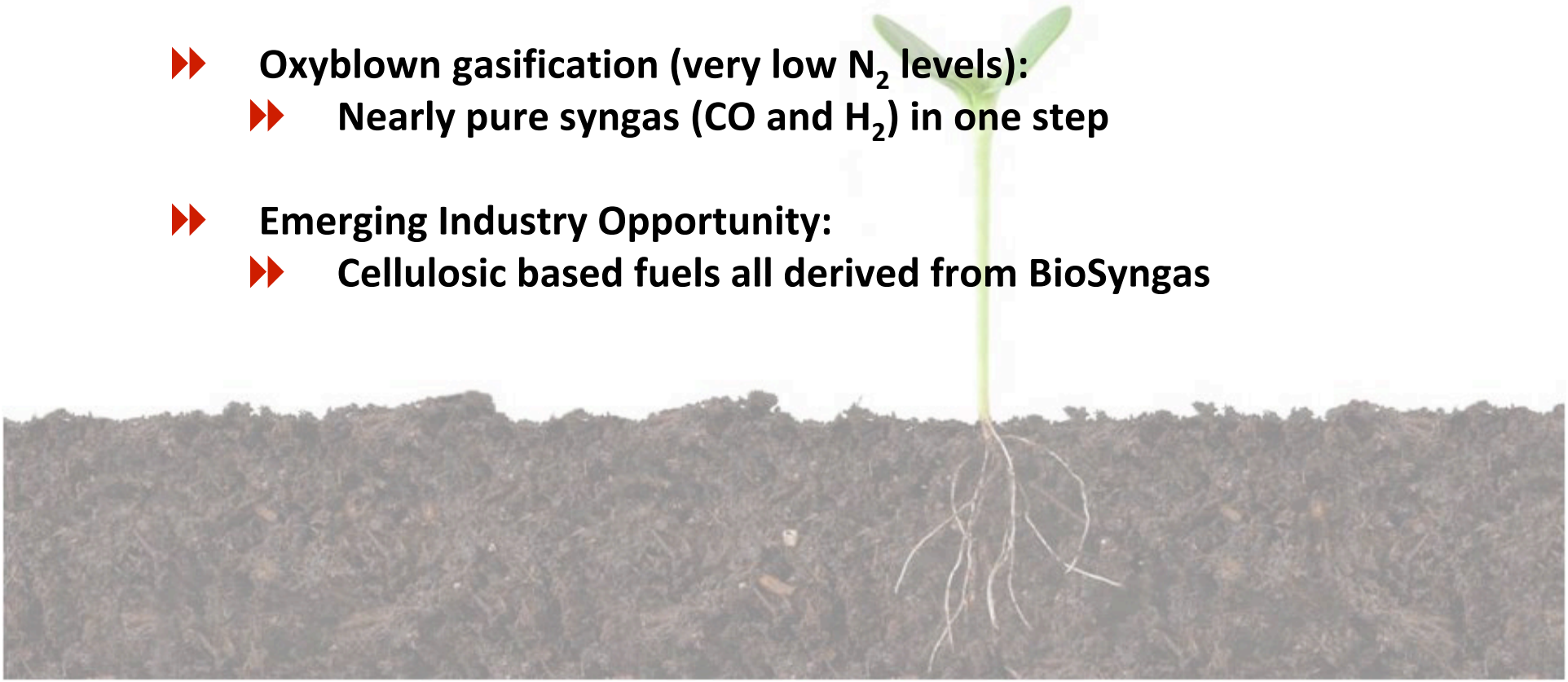


SynGest BioAmmonia™ Process

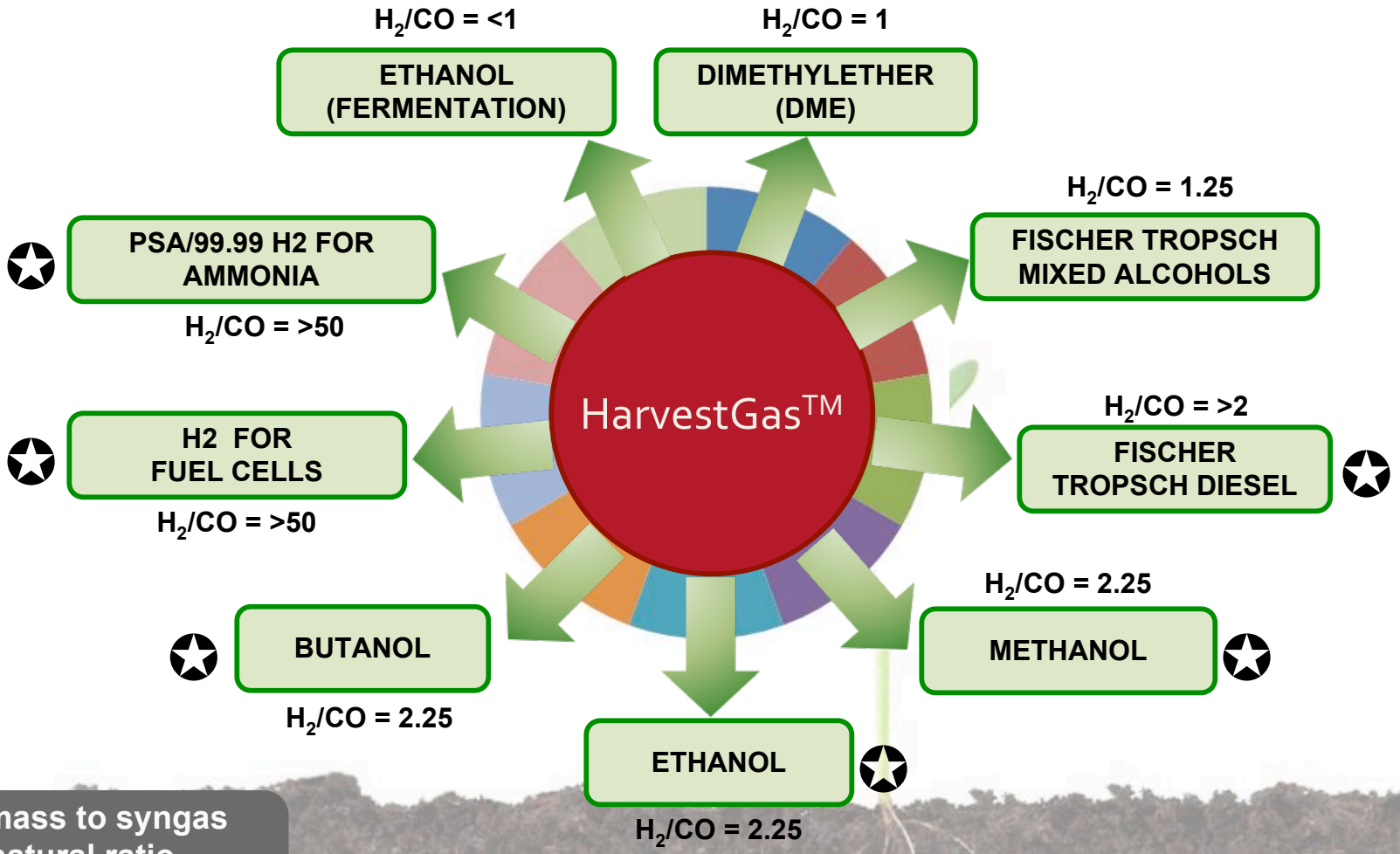


Why SynGest HarvestGas™?

- Current biomass gasification:
  - High BTU gas for fuel value (i.e. high methane content)
- Low methane syngas: a hub for new biofuels
- Oxyblown gasification (very low N_2 levels):
  - Nearly pure syngas (CO and H_2) in one step
- Emerging Industry Opportunity:
  - Cellulosic based fuels all derived from BioSyngas

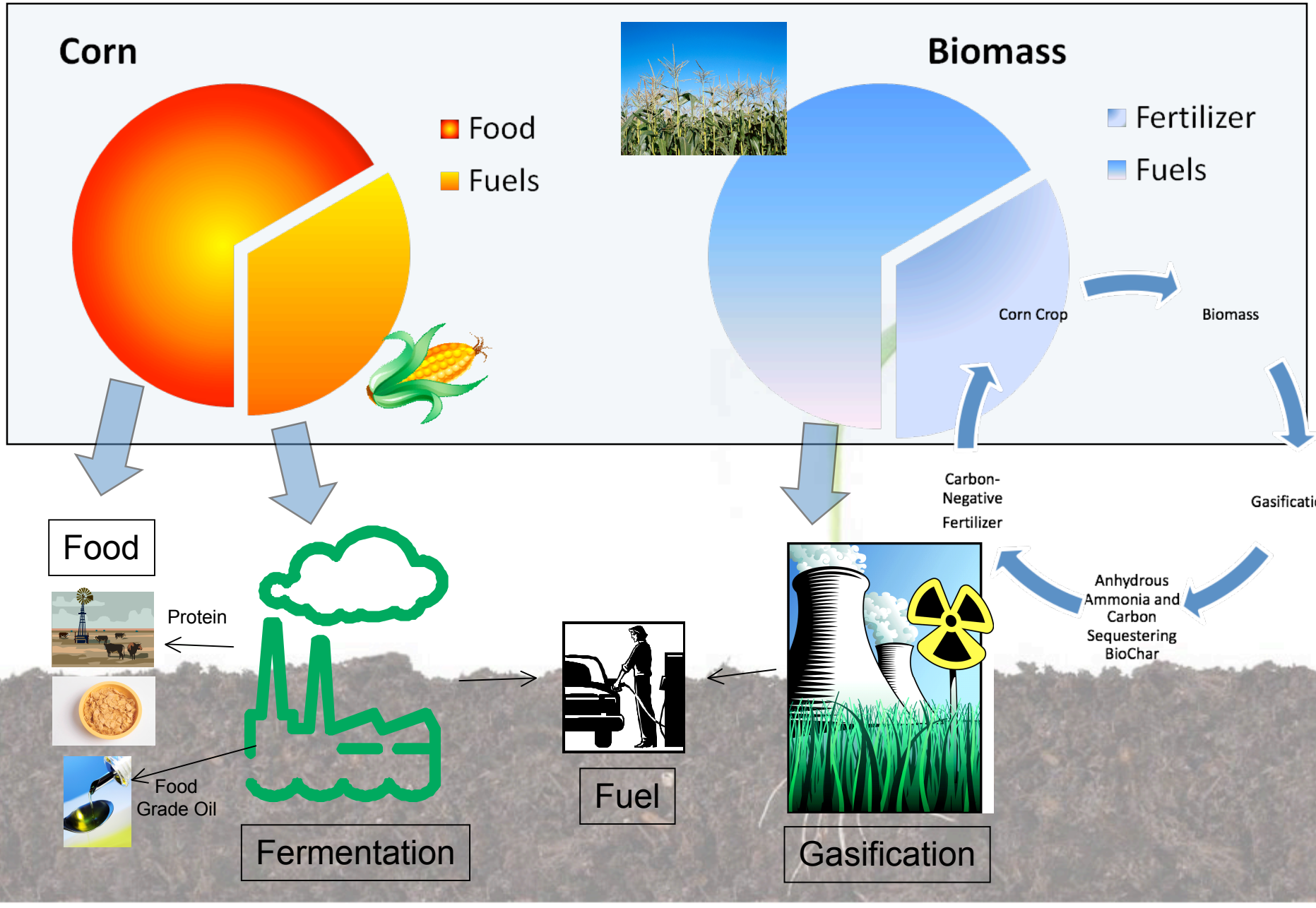


Syngas/BioSyngas Applications



Mini BioRefinery Complex

Maximizing Food and Fuel Production from Every Acre



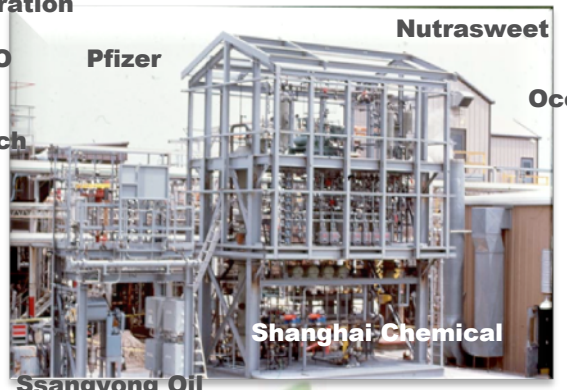
Core Team with an Accomplished Record

SynGest Inc.

- Unitel Technologies, Inc. — *Provider of the basic engineering package*
- The Weitz Company — *Provider of detailed engineering, procurement & construction services*
- Alion Science & Technology / Particulate Solid Research Inc. — *Provider of gasifier technology and detailed engineering*
- HEARTLAND CO-OP

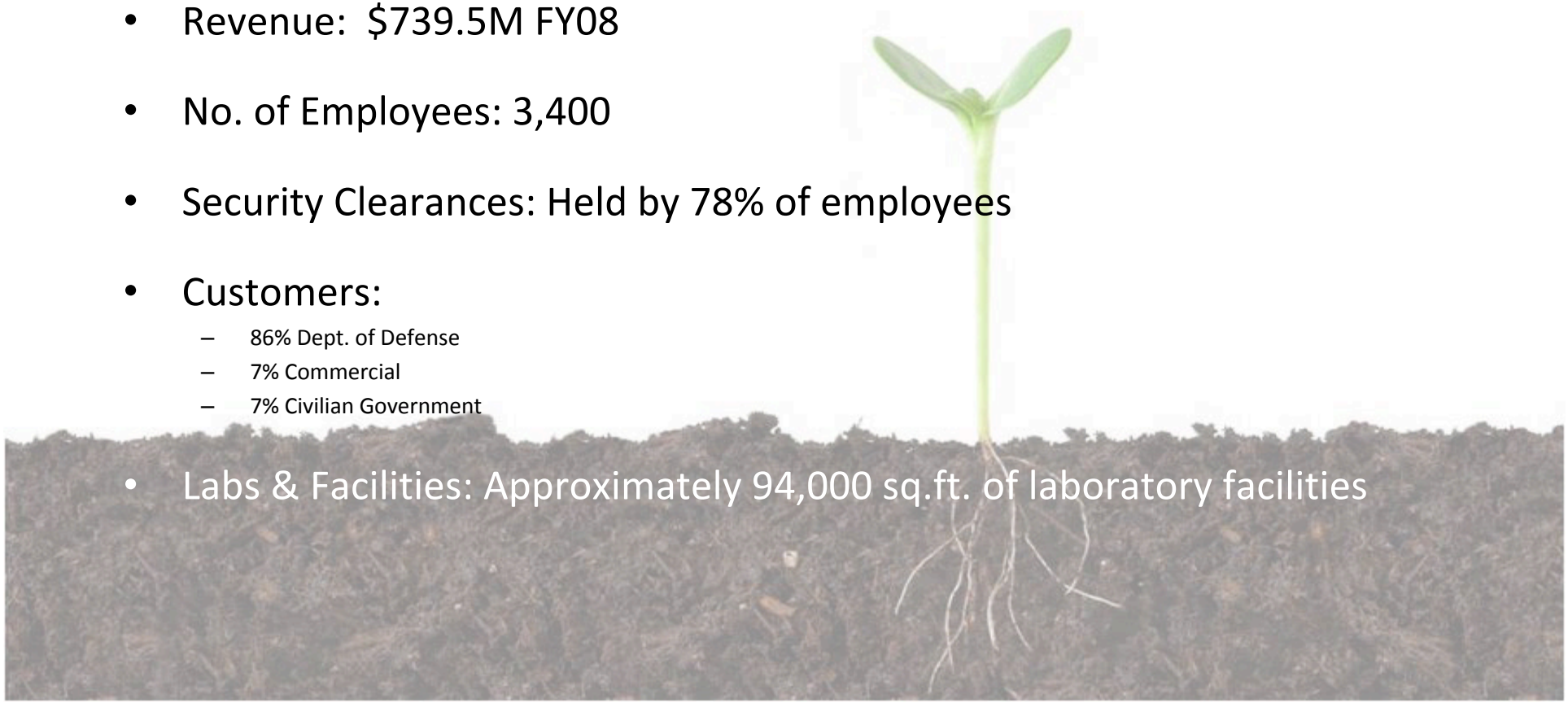
Unitel's Record of Success

United States Steel
AGIP
Chinese Petroleum Corporation (Taiwan)
Indian Oil Corporation
Al-Jubail Petrochemicals
United States Army
Nutrasweet
Yukong
Occidental Research
Sun Oil
W.R. Grace
Petro-Peru
UNIDO (India)
Sherex
Rohm & Haas
Petro-Canada
S.C. Johnson & Sons
Procter & Gamble
Union Carbide
Quest International
Rhone Polulenc
Phillips
Motorola
Shell Development
University of California, Berkeley
Abbott
Air Products
Mobil Research
ARCO
Pfizer
J.M. Huber
Koch Research
Union Oil
Chock-full-o'-Nuts
SWRI
DSM
Alcoa
Korea Explosives
Chevron
Tennessee Eastman
Texaco
Shanghai Chemical
Ssangyong Oil
Polysar
Lucky Petrochemical
Kuwait Petroleum
Modar
Huls AG
Olin
Neste Oy
Uniroyal
Dow Corning
Samsung
Corn Products
Tonen
Melamine Chemicals
National Bureau of Standards
University of Texas, Austin
Akzo
CONOCO
Marathon
Ashland
Ausimont
Dow Chemical
Argonne National Laboratory
DuPont
Exxon Chemical
Engelhard
Exxon Oil
3M
Tenneco Oil
United States Air Force
Syncrude
Fina
Baxter
Monsanto
BF Goodrich
Unilever
BP
Lyondell
Canmet
Henkel
Celanese
General Electric Plastics
Hexcel
USI
U.S.G. Corporation
Nalco Chemical
Hoechst



Alion Sciences

- Employee-owned technology solutions company
  - Delivering technical expertise and operational support to the Department of Defense, civilian government agencies and commercial customers.
- Formed in December 2002 with 1600 employees of the IIT Research Institute (IITRI) (founded in 1936)
- Revenue: $739.5M FY08
- No. of Employees: 3,400
- Security Clearances: Held by 78% of employees
- Customers:
  - 86% Dept. of Defense
  - 7% Commercial
  - 7% Civilian Government
- Labs & Facilities: Approximately 94,000 sq.ft. of laboratory facilities



SynGest Engineering - Completed Gasifier Projects

- Design of a TRI type gasifier for Diesel Brewing in Oregon.
- Heavy residual oil gasification pilot plant capable of working up to 80 bar. Project for the Institute of Gas Technology, Des Plaines, IL USA.
- Rotary solids fuel gasification system for Next Energy, Detroit, Michigan under a US Dept. of Defense contract.
- Autothermal gasification plant for Engelhard/BASF, New Jersey. This plant was designed for autothermal reforming of light hydrocarbons with oxygen and enriched air. It was capable of operating up to 1,000 psig.
- Agglomerating bed gasifier demonstration plant for the Institute of Gas Technology, Des Plaines, IL USA.
- Hazardous waste gasification demonstration plant for Kyung-Ho Engineering, Seoul, Korea. Gasifier works with 90% oxygen.
- Electro kinetic gasifier for hazardous waste gasification (Skygas) for MPM Technologies, Inc., Spokane, WA USA.
- Electro kinetic gasifier for municipal solid waste gasification (Skygas) for Smogless SPA, Milan, Italy.
- Black liquor gasifier, Institute of Paper Chemistry, Appleton, WI USA.
- Simulation of HT-Gas and U-Gas gasifier units for the Institute of Gas Technology, Des Plaines, IL USA.
- Petroleum coke gasifier for Standard Oil of Indiana (Amoco Corporate Research Center, Naperville, IL USA).
- Designed, engineered and constructed a light hydrocarbon gasifier pilot plant for Coskata, Warrenville, IL.
- Completed the design of the light hydrocarbon demonstration plant gasifier for Coskata, Warrenville, IL. This unit is a 30:1 scale-up from the pilot plant project that we had completed.

Next Hurdle: Feedstock (Corn Cob) Logistics

- Enlisted USDA/FSA Support via BCAP
- Major focus for SynGest –Engaging Multi-disciplinary Study Group
  - Study/Focus groups
    - Producers: Held session on 8/24/09
    - Confab: Scheduled 10/26/09
  - Farmer/Entrepreneurs/Logistics
  - Iowa Corn Growers Assn
  - Harvesting equipment manufacturers
  - POET
  - University researchers at Iowa State, U. of Minnesota and Penn State
- Currently running field trials - transport and storage
- Awaiting results of VAAST group study/report

Ammonia Fuel – Comparative Pricing

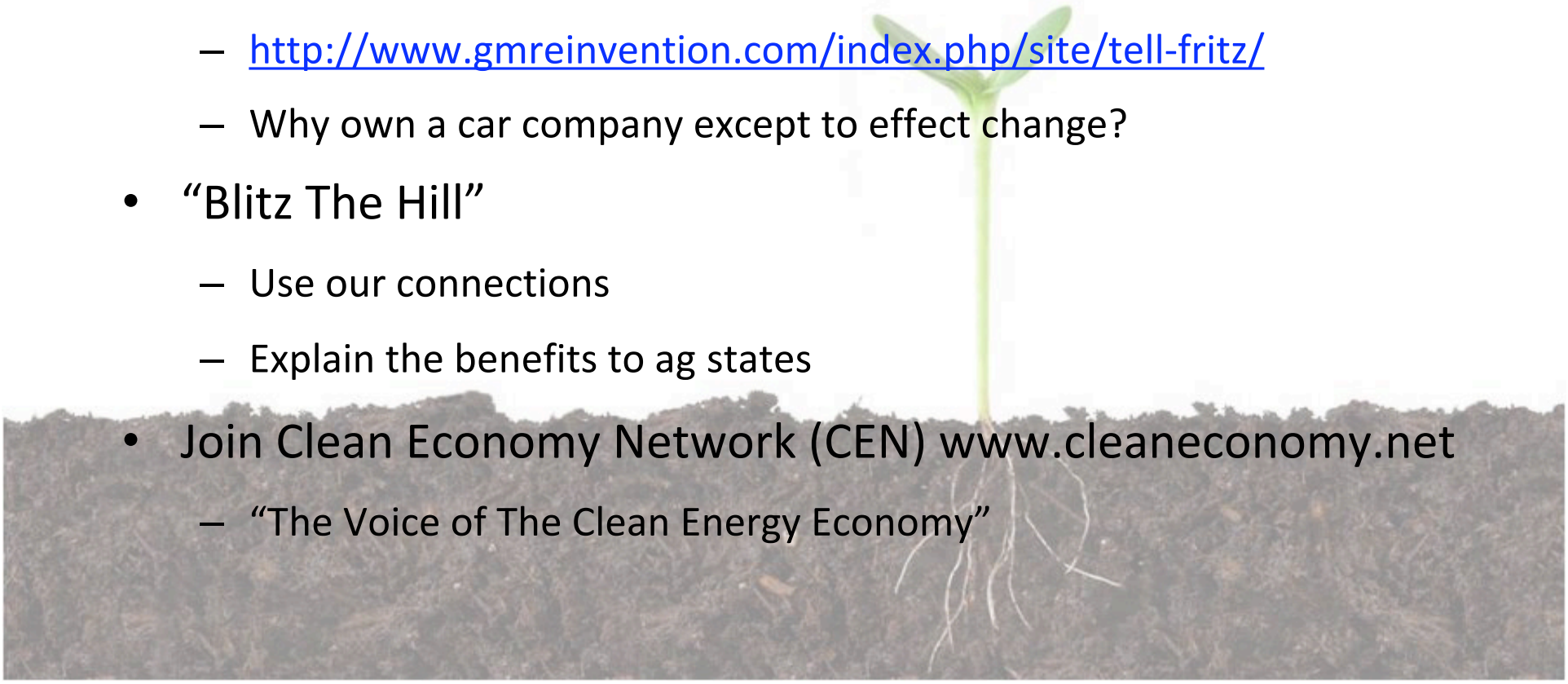
- Natural Gas Expected Pricing: $6-$8/MMBTU
- Anhydrous Ammonia Expected Price $500-$800/ton
- Gasoline Equivalent Pricing
  - $500/ton $3.14/gal
  - $557/ton $3.50/gal
  - $800/ton $5.03/gal

Ammonia – America's Strategic Fuel and Fertilizer

- Only need 33% of available crop residue to make 100% fertilizer
- The rest will be fuel – preferably ammonia
- Potential to make all of agriculture fossil fuel independent

Declaration of Energy Independence - Call To Action

- USDA – Already recognizes ammonia as an Advanced Biofuel
- DOE – Keep the pressure on
- "Tell Fritz":
  - http://www.tellfritz.org/
  - http://www.gmreinvention.com/index.php/site/tell-fritz/
  - Why own a car company except to effect change?
- "Blitz The Hill"
  - Use our connections
  - Explain the benefits to ag states
- Join Clean Economy Network (CEN) www.cleaneconomy.net
  - "The Voice of The Clean Energy Economy"



Ammonia Future

SynGest Contacts

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319-283-0722

SynGest

BioAmmonia* from Biomass

Coming soon to Menlo, Iowa

America's Strategic Fuel and Fertilizer

*100% organic fertilizer