



<p>Investment Highlights</p> <ul style="list-style-type: none"> Obtained \$7 and \$15 million in private funding led by KPCB in Q4 2007 and Q4 2008, respectively. <p>Company Facts</p> <ul style="list-style-type: none"> Conceived in 2003 More than 5 years invested in R&D More than 6 inventions in patent process "Volume + Value" optimized biorefinery <p>Board of Directors</p> <p>Srinivas Kilambi (Founder), Kamal Gunsagar (Founder), Ajit Nazre (KPCB) and Bill Joy (KPCB); Jeet Bindra (Former President, Chevron) is an Observer</p> <p>Management Team</p> <ol style="list-style-type: none"> <u>Dr. Kilambi, Founder, CEO & CTO</u> <ol style="list-style-type: none"> President & CEO of Reliance Green Energy (\$75B Indian Giant) Chief Knowledge Officer of Tata Chemicals (\$80 B Indian Group Company) Founder, CTO of Commodore Separations Inc, US IPO in 1997 <u>Mr. Gunsagar, E.V.P Business Development</u> <ol style="list-style-type: none"> US entrepreneur linked with success at several startups - successful Lara Networks (~\$225M sale) Mentorship and CXO experience, Global industry and Govt. contacts Green & solar energy expertise <u>Dr. Kiran Kadam, VP Research & Technology</u> <ol style="list-style-type: none"> Biofuels expert; formerly of NREL, Pure Vision Technology 15+ years of international and domestic experience in biofuels area. 100+ publications, presentations, and book chapters; 1 book; several patents. <u>Dr. Sree Nimmala, Director Science</u> <ol style="list-style-type: none"> More than 15 years of R&D experience, with 4 focused on green synthesis. Recognized scientist, 20 publications, 1 book chapter and 1 international report. <u>Dr. Dave Ginter, Director R&D</u> <u>Tim Brown, Director Bus. Dev</u> <u>Mike Simard, Director Operations</u> <u>Steve Liu, Director Engineering</u> <p>Scientific Board of Advisors</p> <ul style="list-style-type: none"> Dr. Anthony Collins, President, Clarkson Dr. Doug Cameron, Piper Jaffry Dr. Jeff Tester (MIT) Dr. Phil Savage (Univ. of Michigan) Dr. Mani Subramanian (Univ. of Iowa) Dr. Michael Mathews (Univ. of South Carolina) Dr. Chris Cox (Univ. of Tennessee) Dr. YY Lee (Auburn University) Dr. Robert Brown (Iowa State University) Dr. David Bruce (Clemson University) <p>Business Board of Advisors</p> <ul style="list-style-type: none"> Dr. M.K.Raheja (Ciba Vision) Bruce Wobeck (Morris Manning) 	<p>MISSION</p> <p>To develop, and commercialize world's first "true" nano-biorefinery producing both low cost biofuels and very high value biochemicals using patent pending technologies.</p> <p>COMPANY PROFILE</p> <p>Sriya Innovations was conceived by Dr. Kilambi in 2003 to be the torch bearer for a disruptive biorefinery technology. Since then the company has spent its time and effort in R&D, design engineering, bio-crude to biorefinery business plan development, studying global markets for its products, competition and key differentiators and finally developing a compelling solution to the entire biomass supply chain quagmire through its patent pending hub & spoke bio-crude supply chain model.</p> <p>COMPETITIVE TECHNOLOGY LANDSCAPE</p> <ol style="list-style-type: none"> Conventional: only incremental improvements despite 20 years of work and over \$200M of investments in R&D Genetic engineering focus: expensive and lengthy with social and regulatory issues Most start-ups focusing on bioethanol (BE) – a very poor value product Furthermore, most R&D focus is on a single biomass and is thus biomass dependent Very little focus on biomass supply chain optimization & production enhancement and thus creating a food vs. fuel issue <p>MARKET OPPORTUNITY</p> <ul style="list-style-type: none"> Global estimates for biofuels market by 2015 is \$65 billion and is expected to grow at >15% per annum Although ethanol can be easily made from biomass-derived sugars using commercially available fermentation technology, Sriya is focusing on value-added products with large world markets such as: <ul style="list-style-type: none"> Xylitol >\$600-700 million Furfural >\$2 billion Lignin >\$700 million Erythritol >\$2 billion Glycolic acid >\$800 million Ethylene glycol >\$3 billion <p>SRIYA's SOLUTION</p> <ol style="list-style-type: none"> Technology Sriya's solution uses a disruptive approach to breaking the cellulose code. Two forms of disruptive technologies that do not exist in nature are: <ol style="list-style-type: none"> Nano-technology Genetic engineering of a super bug SII is focusing on nano technology and our R&D results to date have shown that Sriya's technology offers the cheapest, fastest and the most efficient approach and consequently the greatest chance of commercial success Supply Chain Optimization of Biomass. Collection, baling, transportation, storage and seasonal availability of biomass are a challenge for any biorefinery and this need to be addressed for any commercial success as biomass costs account for 33-50% of final COGS and 33% of this biomass cost is logistics and transportation. SII has solved this complex issue: <ol style="list-style-type: none"> Sriya's process is biomass agnostic and thus capable of using multiple biomass (including a biomass basket) improving supply chain logistics, year round availability and lower procurement and transportation costs
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- b. **Following a unique hub & spoke model** wherein the large spokes will end up to be **semi-processing centers** to convert biomass into liquid and solid fractions.
- c. Pumping these liquid fractions, **bio-crude**, by pipe lines, akin to petro-crude and use of conveyor belts for the solid fractions. Our cost model shows that this would reduce the logistics costs to less than a quarter of the conventional approach - or over 15-25 ¢/gallon
- d. Crack, Refine, Produce and Purify technology model
- e. Following an E&P model similar to petro-crude with a separate upstream department, R&D to generate more biomass/acre with newer crops, seeds etc.

SRIYA's IP & INVENTIONS

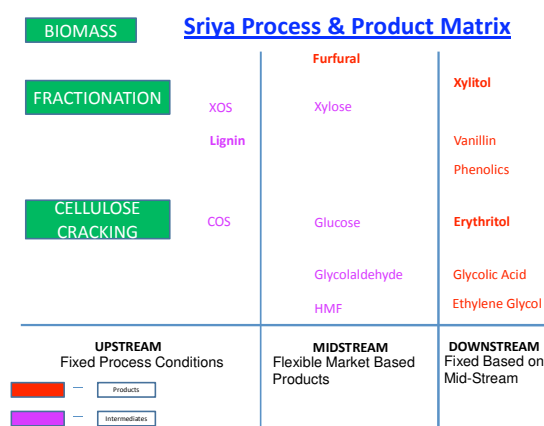
1. Use of Nano-Solvo-Thermal Platform technology to convert biomass to bio-crude
2. Clean fractionation of bio-crude to value added chemicals using NCST platform technology
3. Conversion of xylose to bio-xylitol
4. Conversion of C5/hemicellulose to furfural
5. Conversion of cellulose (C) to Nano-C and lignin (L) to Nano-L
6. Conversion of cellulose to glucose and fructose
7. Use of SLMs in lieu of distillations and molecular sieves (Dr. Kilambi's existing US patents)

SRIYA's DIFFERENTIATORS

1. Nano-Solvo-Thermal Platform Technology to break the cellulosic code (seconds vs. days)
2. **Bio-crude based biorefinery** model which is flexible and biomass source independent (cheapest, fastest)
3. A powerful technical team with **significant operational experience** (Founder - ex president and CEO of \$30 billion Green Energy divisions)
4. No food vs. fuel issues makes the business plan very attractive and commercially viable in the huge potential markets of Asia and Africa
5. **"Volume + Value" Optimized Biorefinery**
 1. **Focus on Biorefineries** = \$6-7/kg xylitol and furfural (\$1.7/kg) as opposed to ethanol which is at best \$0.5/kg.
 2. Use of lignin in phenolic resins and as surfactant at \$500-1000/t instead of burning to steam and power, a \$50-100/t value at best.
 3. Production of very high-value vanillin, erythritol and glycolic acid.
 4. Production of ethylene glycol.

THE EXECUTION PLAN

1. Sriya has spent \$2.5 million over the last 12 months to perfect its nano-solvo-thermal biorefinery technology at bench scale and at 100 kg/d scale.
2. The next step is to install a 3 t/d pilot plant and generate engineering-scale data for scale up. This would need \$5 million and a combined time of 9 months for design, construction and operation. Completion slated for Q3 2008.
3. The next step will be to build a 10 MMGY biorefinery, for \$25-30 million and in 18 months time from concept to commissioning
4. And, finally, scale up to 100-200 MGY biorefining capacity.



SRIYA's CONTACT INFORMATION

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