INTREXON®

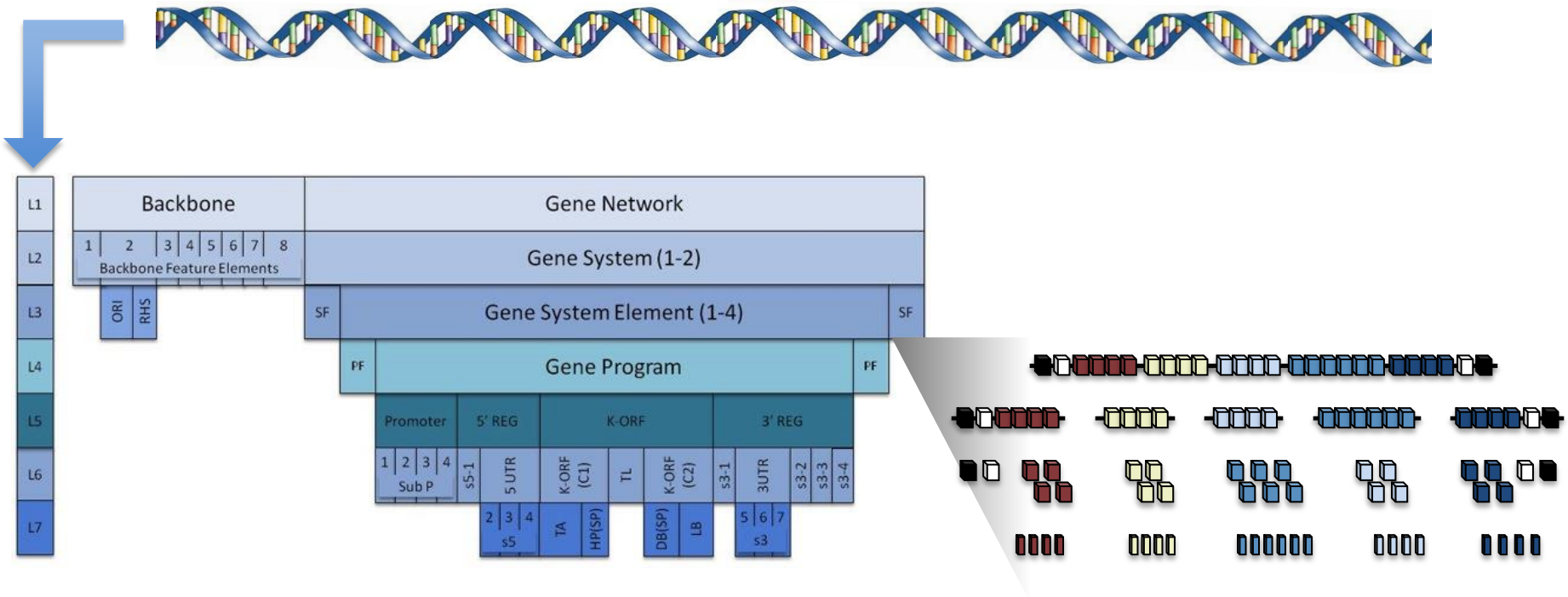
***Government-University-Industry Research Roundtable Meeting***

*October 21, 2015*

*Presented by Thomas D. Reed, Ph.D.*

# Proprietary Approach for Design & Fabrication of DNA Code

Since its inception Intrexon's understanding of DNA's modular nature has provided the foundation for its proprietary approach in designing and constructing complex gene programs with predictable outcomes utilizing the building blocks of genetic code







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# With End-to-End Production Capability for Bio-Based Solutions

**UltraVector® Platform** enables rapid assembly of complex DNA through modular, object-oriented DNA design & manufacturing

**RheoSwitch Therapeutic System® Technology** provides inducible regulation of level and timing of gene expression

**AttSite® Recombinases** enable genome engineering and delivery technologies for targeted gene integration plus expression

**DNA/RNA Engineering** of genetic components to regulate transcription and modulate RNA persistence and translation

**Protein Engineering** utilizes bioinformatics to enhance stability, localization, and catalytic activity of proteins

**Cell Systems Informatics** guide selection of optimal pathways for genomic modification

**LEAP® Cell Processing** provides imaging and laser-based purification of high value cells

**ActoBiotics™ Therapeutics** provide for *in situ* expression and secretion of novel proteins and peptides through microbes

From its foundational approach to DNA design and fabrication upon which the Company was established, Intrexon has invented, acquired, and integrated a suite of technologies creating a one-stop-shop for start-to-finish conceptualization, engineering and production of bio-based solutions




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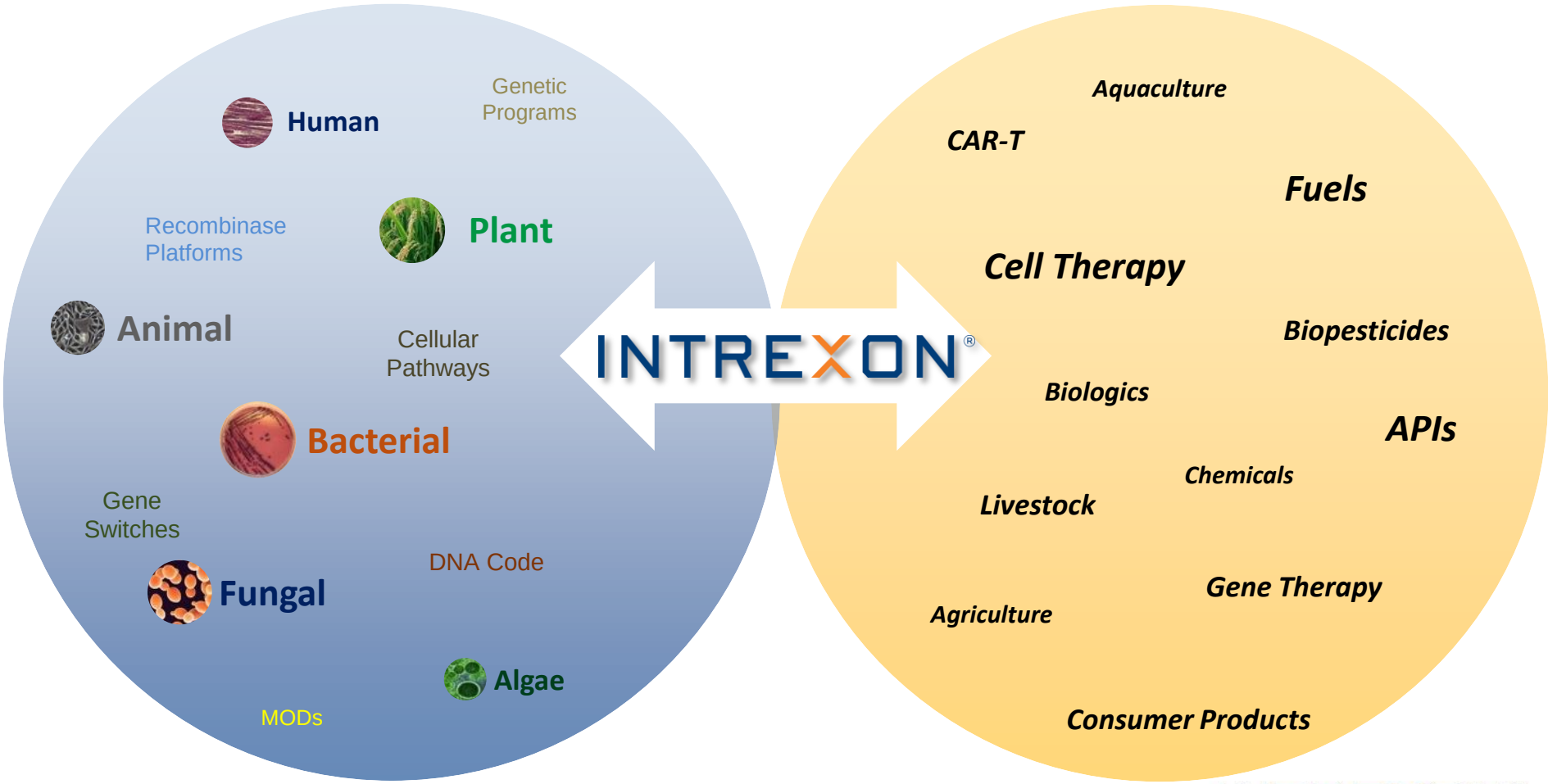
# Positions Intrexon To Capitalize on Vast SynBio Opportunities

**Intrexon's DNA genetic tools and expertise navigate multiple hosts enabling the use of the best platforms for optimal solutions**

**Through the engineering of biology Intrexon is targeting large markets and commercial opportunities**







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