ResourceFiber®
BAMBOO FIBER FOR INDUSTRY

World Bamboo Congress

Bamboo Fiber for Industry

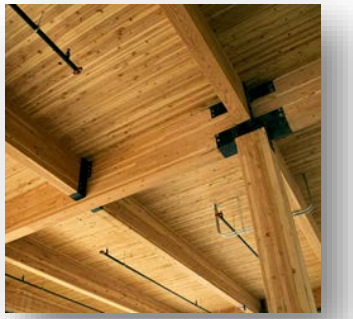
August 15, 2018

Presenter:

David Knight
Co-Founder, President/CEO

Resource Fiber –
The Only U.S. Integrated Bamboo Fiber Company

Bamboo and its unique material properties are significantly underutilized in large-scale industrial applications.



Resource Fiber is:

- manufacturing high performance bamboo products;
- growing a sustainable bamboo forest in Alabama to support its bamboo product strategies; and
- selling bamboo fiber to other industrial users.

ResourceFiber®
BAMBOO FIBER FOR INDUSTRY

Recognized Industry Leaders

100+ years experience in bamboo industry

David Knight, CBI
Co-Founder, Investor
President/CEO
Co-Founder, Teragren Bamboo

Ann Knight
Co-Founder, Investor
CCO/EVP
Co-Founder, Teragren Bamboo

Marsha Folsom
Co-Founder, Investor
Chief Development Officer
Former First Lady, Alabama

Mary Valenta, DBA,CPA
Financial Expert, Investor
Principal, On The Green
Former CFO, O'Neal Steel

Lee Slaven
Investor
COO, Manufacturing
Former R&D Director, Teragren

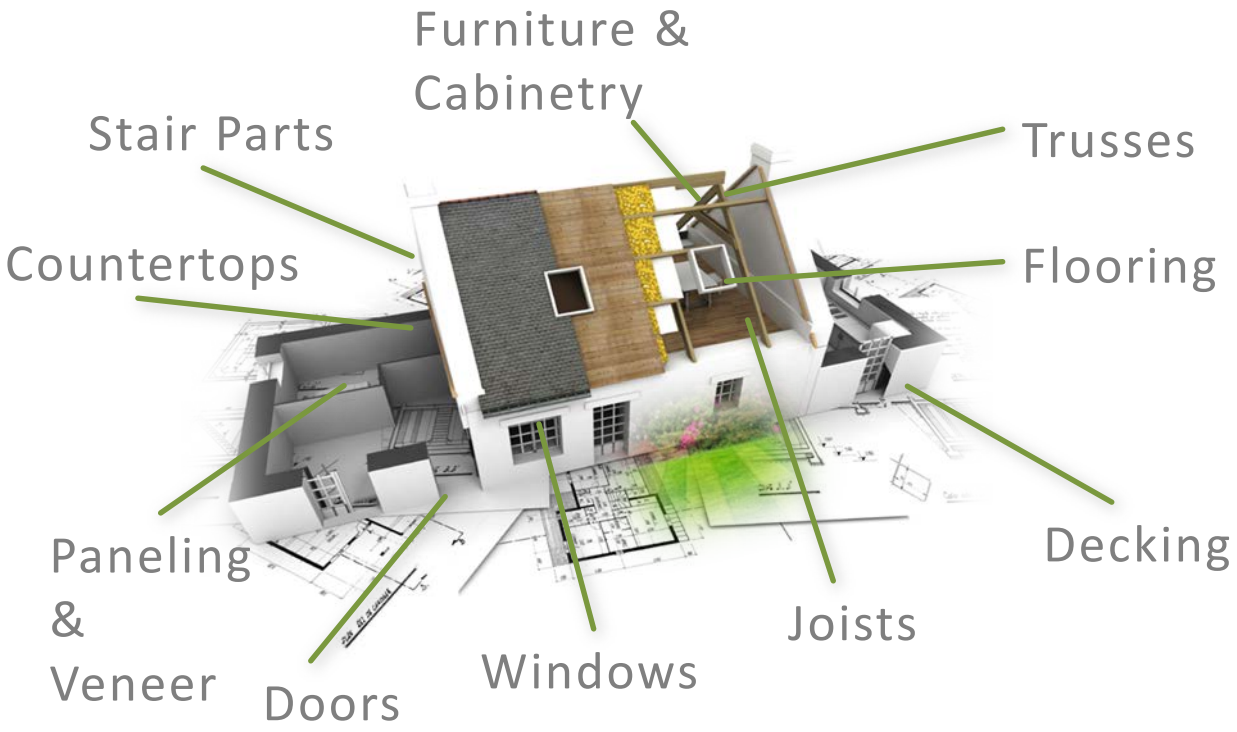
Roger Lewis
COO, Agriculture
Investor
Principal, Lewis Bamboo

Scott Bryant
Land Asset Manager
Investor
Principal, Cyprus Partners

ResourceFiber®
BAMBOO FIBER FOR INDUSTRY

Recognized Industry Professionals Lead Resource Fiber

Teragren
FINE BAMBOO FLOORING, PANELS & WORKTOPS



Co-founders David and Ann Knight established Teragren Bamboo in 1998 with an emphasis on environmentally and socially responsible practices.

- 1 million SF manufacturing facility in China
- Grew revenue 30% to 40% annually for over 10 years
- Rated #1 in *Consumer Reports* multiple years running
- Teragren serviced over 4,000 flooring stores in North America

ResourceFiber®
BAMBOO FIBER FOR INDUSTRY

Notable Teragren Installations

Notable Installations

A curated selection of commercial and public projects that use Teragren products

RIO PIEDRAS APARTMENT BUILDING

Location: San Pedro Sula, Honduras.Signature Naturals Bamboo Flooring and Vertical Grain Caramelized Panels

U.S. ENVIRONMENTAL PROTECTION AGENCY

Location: Denver CO
Signature Naturals Bamboo Flooring and Vertical Grain Caramelized Panels

CHICAGO MUSEUM OF SCIENCE & INDUSTRY

Location: Chicago IL
Synergy® Strand Bamboo Solid-Strip Flooring

U.S. DEPARTMENT OF ENERGY SOLAR DECATHALON

Location: Washington DC
Traditional Bamboo Panels and Specially Developed Open-Web Bamboo Joists

WEST COAST GREEN HARBINGER HOUSE

Location: San Jose CA
Signature Colors Bamboo Flooring

YALE UNIVERSITY'S GREEN BUILDING PROJECT

Location: New Haven CT
Synergy® Strand Bamboo Solid-Strip Flooring

HUTTON HOTEL

Location: Nashville TN
Synergy® Strand Bamboo Solid-Strip Flooring and Strand Panels

AMGEN RESEARCH + TECHNOLOGY CENTER

Location: Seattle, WA
Signature Naturals Bamboo Flooring, Vertical Grain Natural Panels and Custom Stair Parts

Why Create Sustainable Companies?

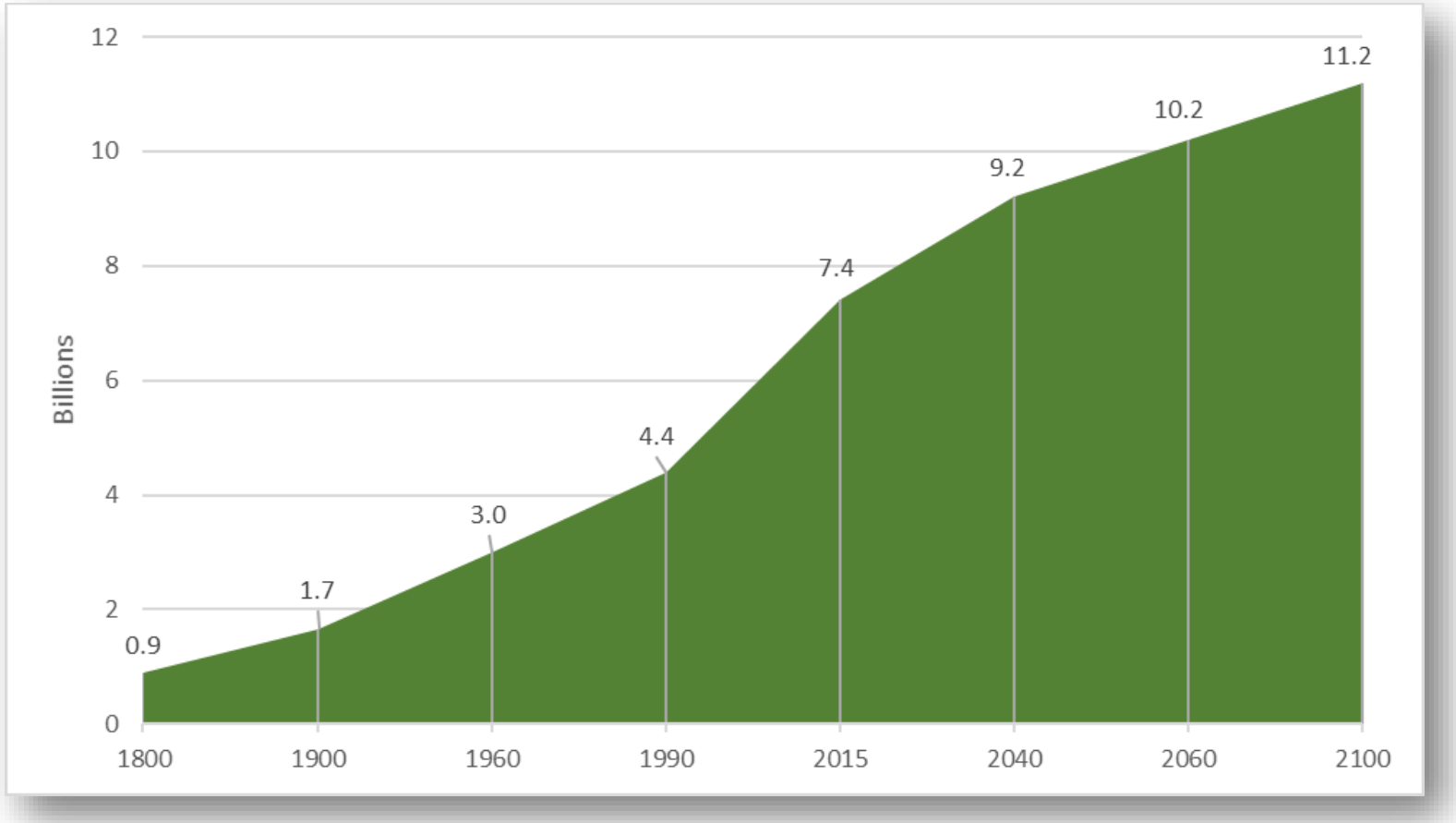
- Sustainability must balance:
  - ✓ responsible environmental management
  - ✓ social justice
  - ✓ wealth creation
    - o corporate and local communities

The world needs it….

ResourceFiber®
BAMBOO FIBER FOR INDUSTRY

Global Population (billions)

- Already 40% over carrying capacity of earth
- Adding ~80 million people annually
- 2.4 billion MORE people in next 30 years



Source: UN Population Division (2015)

ResourceFiber®
BAMBOO FIBER FOR INDUSTRY

Global Middle Class

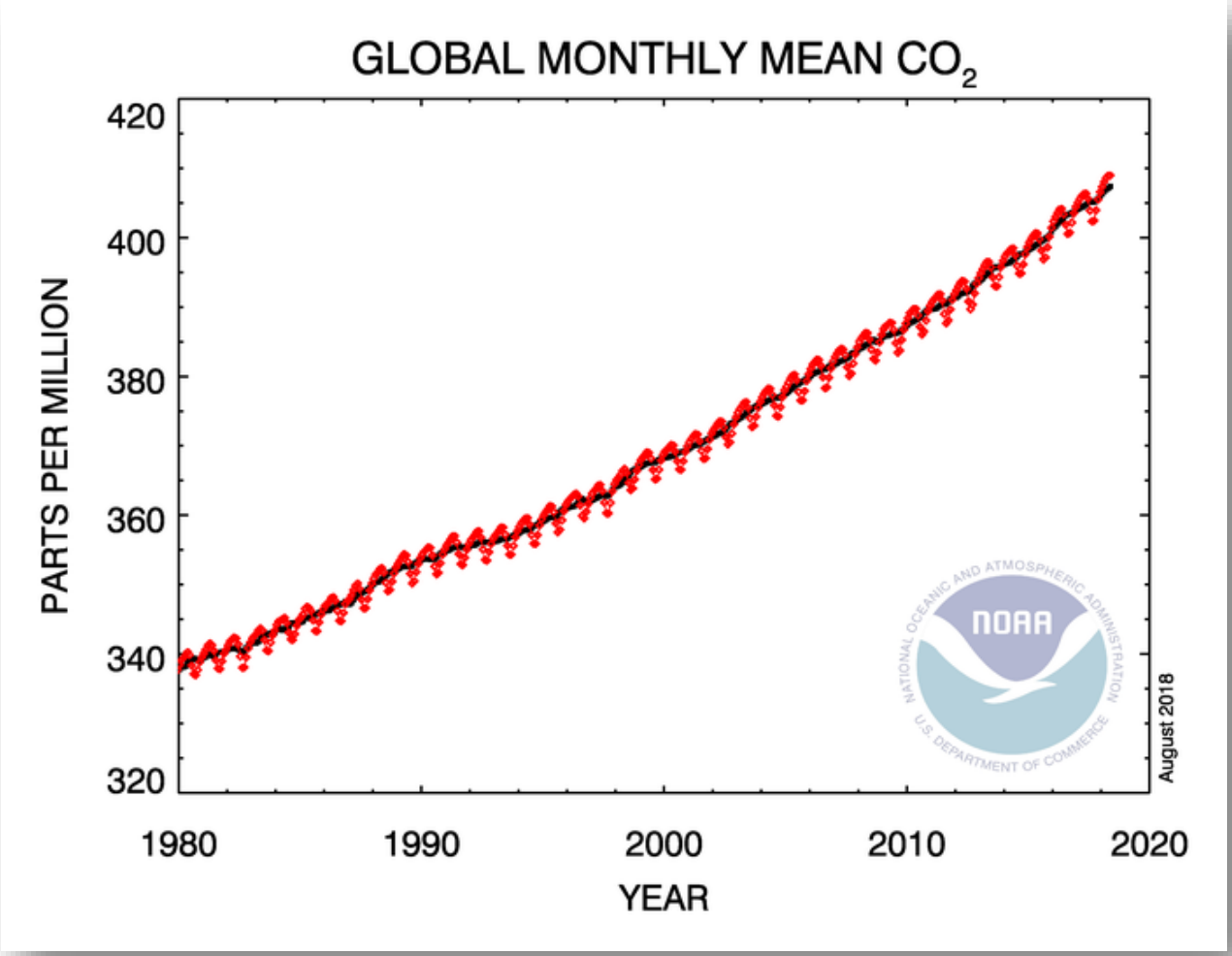
- Triple use of natural resources by 2050
- Fiber demand to continue pressure on native & old growth forests

Source: Brookings Institute (2017)

ResourceFiber®
BAMBOO FIBER FOR INDUSTRY

Carbon Emissions & Climate Change

- Atmospheric carbon – 409 PPM
- Hasn't been this high in 800,000 years
- Ice melting, storms and droughts intensifying, oceans warming, sea levels rising
- Carbon footprint of middle class is 50% higher
- Average human uses 100 pounds of plastic each year



Source: NOAA (2018)

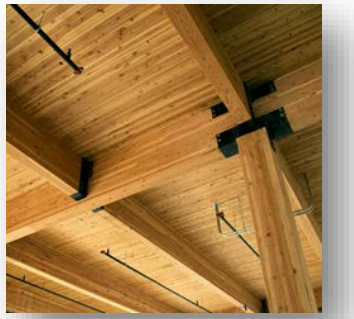
ResourceFiber®
BAMBOO FIBER FOR INDUSTRY

Resource Fiber Is In The Materials Business

Bamboo and its unique material properties are significantly underutilized in large-scale industrial applications.

- Middle class are consumers
- Consumption behavior won't drastically change
- Materials used in products must change

- Bamboo can make a big difference….



ResourceFiber®
BAMBOO FIBER FOR INDUSTRY

Why Bamboo?

Rapidly Renewable

- Yields 6X more fiber than trees
- Plants withstand extreme weather events

Sustainable

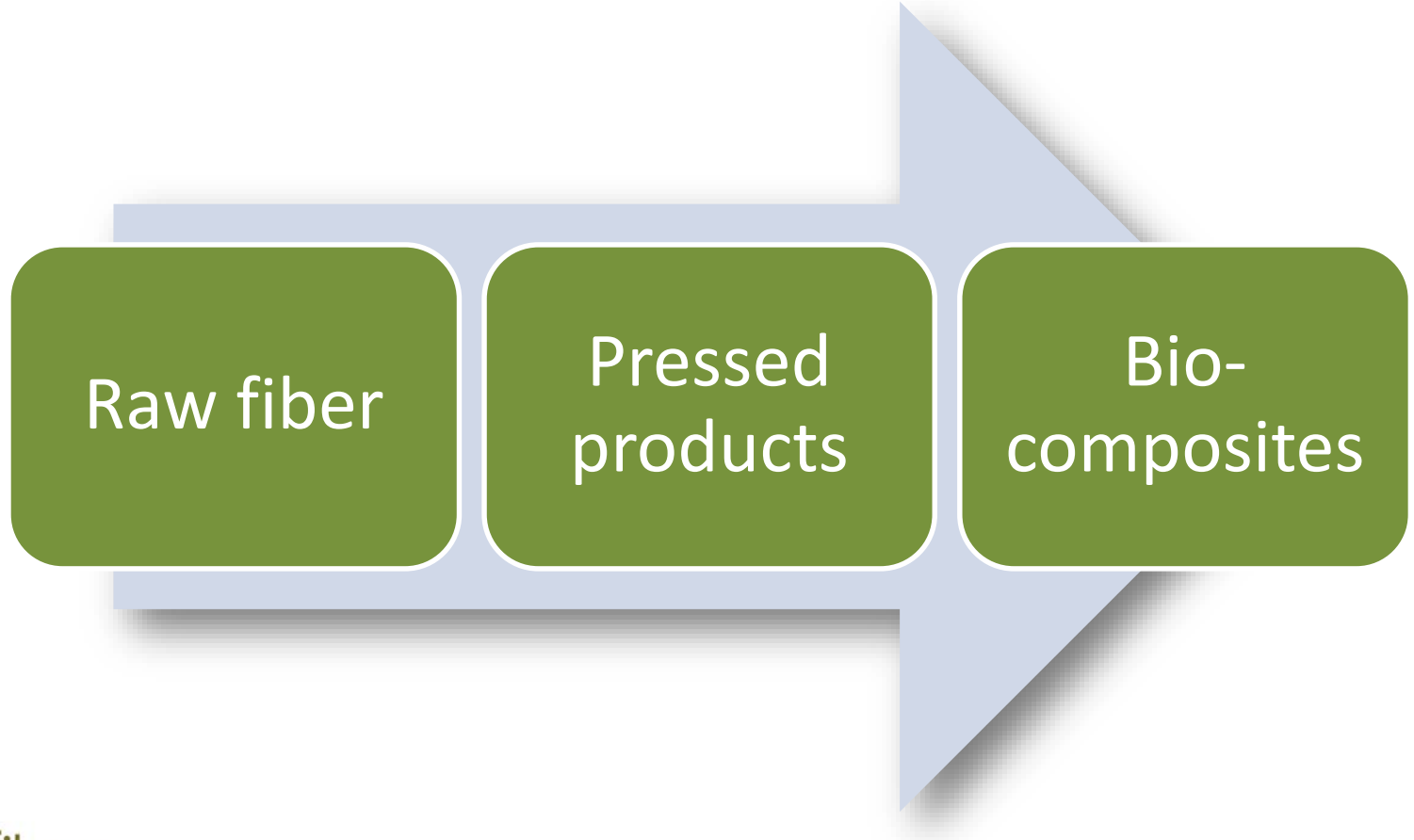
- Captures 5X more carbon than a like-sized wood forest
- Requires little water, no synthetic fertilizer or pesticides

Versatile

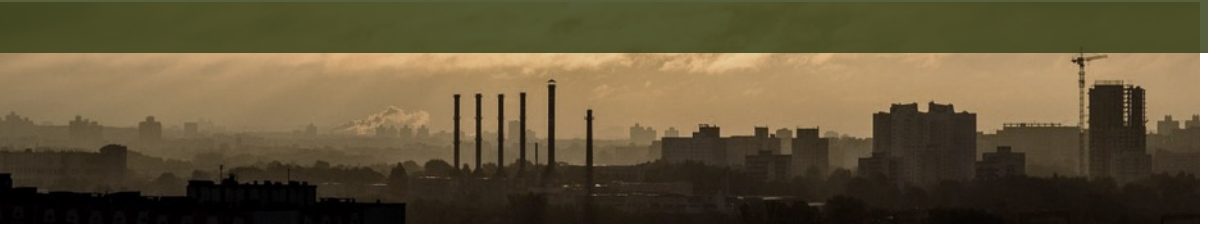
- Lightweight with the tensile strength of steel
- Superior mechanical properties
- Used in industrial products and integrated into plastics and carbon fiber

ResourceFiber®
BAMBOO FIBER FOR INDUSTRY

3-Pronged Market Approach



ResourceFiber®
BAMBOO FIBER FOR INDUSTRY



Industry Problems	Bamboo Solutions
◎ Limited old growth wood fiber	✓ Products properly engineered and manufactured replicate old growth wood fiber
◎ Toxins	✓ No creosote or toxic preservatives required
◎ Carbon	✓ Bamboo & its products can durably sequester carbon ✓ Bamboo fiber displaces petroleum-based fibers in plastics, carbon fiber & polymers
◎ Waste	✓ No waste. Cradle-to-cradle manufacturing; also used in biocomposites

Resource Fiber In-Field Bamboo Nursery

- Located in Alabama
- 100 acre in-field nursery
- Largest commercial-scale bamboo nursery in U.S.

ResourceFiber®
BAMBOO FIBER FOR INDUSTRY

Bamboo Farms

- Resource Fiber-owned farms
- Preferred Farmer Program
  - ✓ U.S.
  - ✓ International
- Companion plants for soil nutrition

ResourceFiber®
BAMBOO FIBER FOR INDUSTRY

International Supply Relationships

- Developing pre-processing facilities globally to export bamboo mats to U.S.
- Goal to manufacture & sell bamboo products regionally
- Support local communities by developing local bamboo resources and creating jobs
- Help existing native bamboo forests become more productive

Bamboo region

- Increase carbon sequestration through Resource Fiber's managed bamboo forest initiative

ResourceFiber®
BAMBOO FIBER FOR INDUSTRY

Built to Scale

- Manufacturing process designed to replicate
- Replicate in U.S. & other countries
- Manufacturing located within bamboo regions
- Wide variety of products utilizing same manufacturing process
- Start with pre-processing facility for bamboo mat export, expand into finished products

ResourceFiber®
BAMBOO FIBER FOR INDUSTRY

Raw Bamboo Fiber

- Off-fall from manufacturing process
- Biomass bamboo farms in U.S.
- Bio-composites
  - ✓ Plastics
  - ✓ Carbon fiber
  - ✓ Polymer for additive manufacturing (3-D printing)
- Mechanical properties superior to hemp, jute & other plants

ResourceFiber®
BAMBOO FIBER FOR INDUSTRY

Additive Manufacturing (3-D Printing)

- World record for largest 3-D project
- Oak Ridge National Laboratory
- Utilized Resource Fiber bamboo fiber

- Printed Cobra (no bamboo)
- Future of manufacturing

ResourceFiber®
BAMBOO FIBER FOR INDUSTRY

Attracting Major Corporate Customers

- Large industrial customers
  - Four Berkshire Hathaway companies
  - Largest tall building form contractor in U.S.
  - Several railroads
  - Top tier furniture manufacturer
  - Others in U.S. transportation sector

ResourceFiber®
BAMBOO FIBER FOR INDUSTRY

Supported by Major Strategics

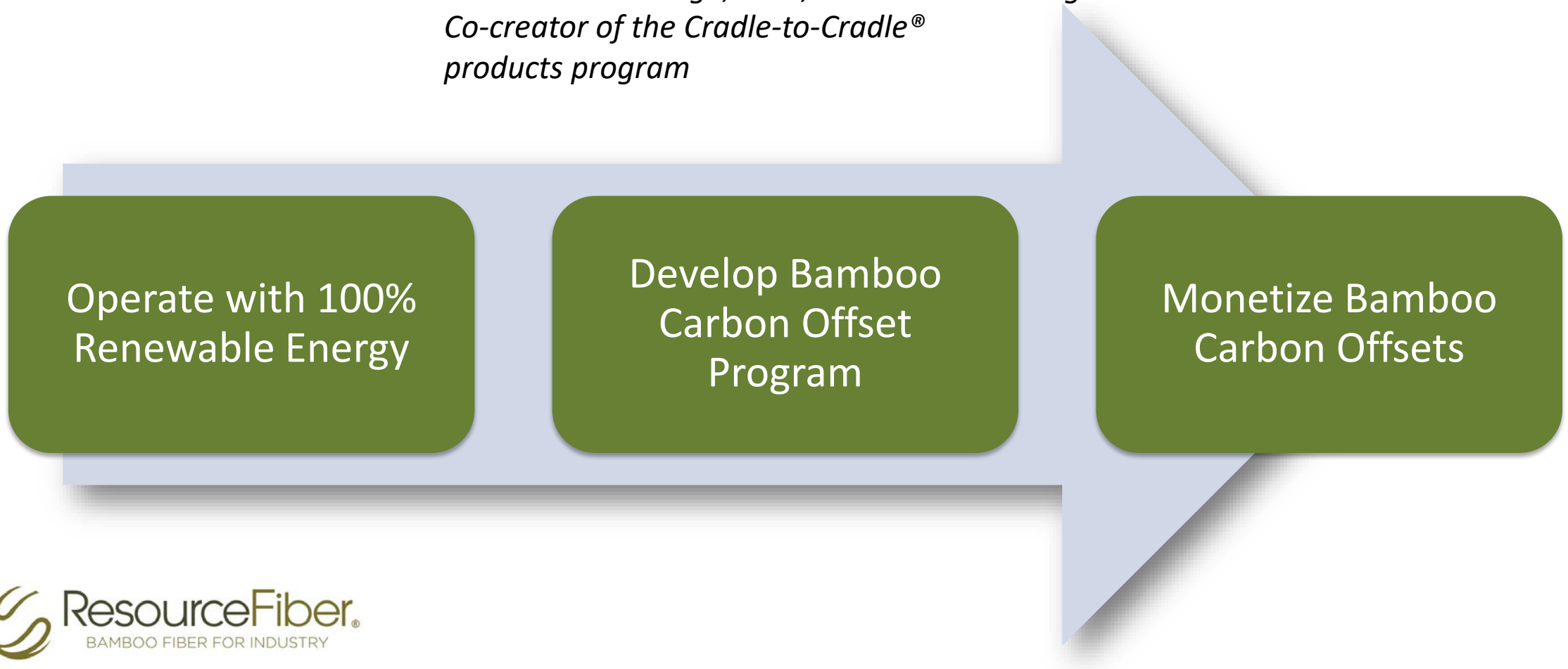
Department of Energy Grant Funding for Bamboo Biocomposites

- Awarded $80,000
  - ✓ Research & Development
- Awarded $551,000
  - ✓ Transportation product
    - ✓ Light weighting
    - ✓ Reduction in supply chain energy use
    - ✓ Cradle-to-cradle
    - ✓ Competitively priced

Carbon Positive Strategy

Carbon Positive is the state at which an entity is removing/absorbing more GHG than it is emitting.

William McDonough, FAIA, William McDonough + Partners Architects
Co-creator of the Cradle-to-Cradle®
products program



ResourceFiber®
BAMBOO FIBER FOR INDUSTRY

Summary

- U.S. Demand
  - ✓ Industrial demand increasing
  - ✓ Some companies require domestic U.S. supply
  - ✓ Sustainability increasingly important
  - ✓ Carbon offsets important
  - ✓ U.S. industries embracing bamboo now
    - o Transportation
    - o Construction

ResourceFiber®
BAMBOO FIBER FOR INDUSTRY

ResourceFiber®
BAMBOO FIBER FOR INDUSTRY

Thank you

David Knight
Co-Founder, President/CEO

dknight@resource-fiber.com