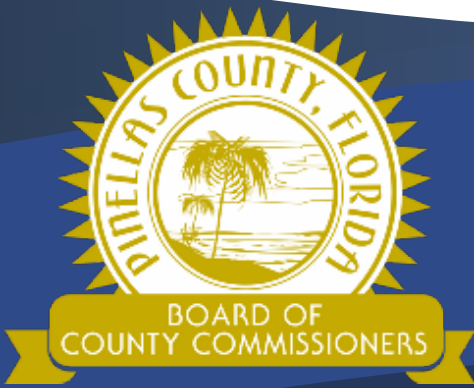


Regional Resource Recovery Facility (RRRF)

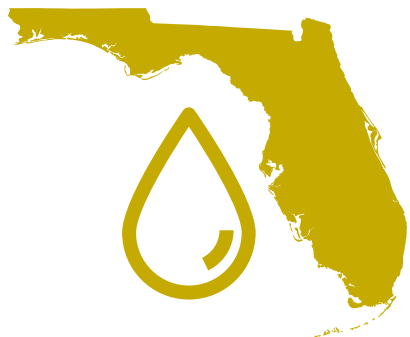
Board of County Commissioners Meeting
May 10, 2022



Presented by
Megan Ross, P.E.
Director of Utilities

Our Vision: To Be the Standard for Public Service in America

Florida's Biosolids Management Challenges



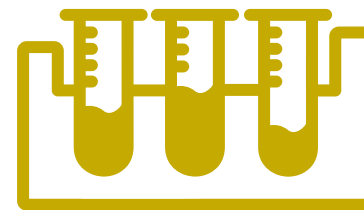
State has fragile ecosystems and nutrient sensitive waters



Biosolids land application has been identified as a potential contributor to nutrient pollution problems



62-640 biosolids regulations getting more stringent regarding land application



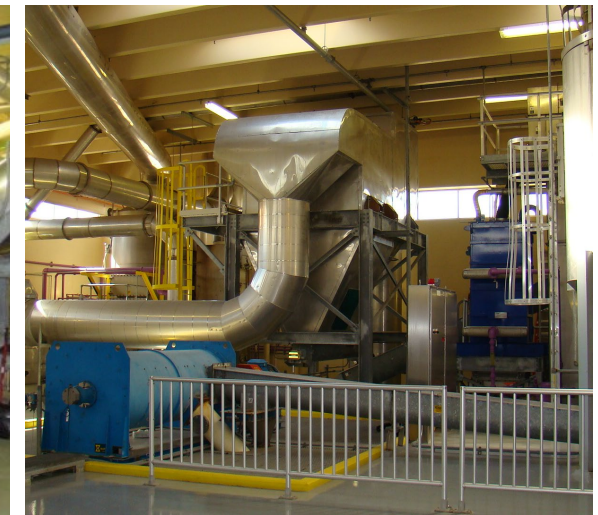
Concerns regarding emerging contaminants such as PFAS, hormones, personal care products, etc. in biosolids



Biosolids to landfill not desirable

Project Purpose and Benefits

- 20 years of Biosolids Beneficial Reuse
- Regional Solution
- Addresses Regulatory Requirements and Water Quality Concerns
- 'Zero Waste To Landfill' Goal 2050
- Creates Beneficially Reused Products



Pinellas County Strategic Alignment



Practice Superior Environmental Stewardship

- 3.1 Implement green technologies and practices where practical
- 3.2 Preserve and manage environmental lands, beaches, parks, and historical assets
- 3.3 Protect and improve the quality of our water, air, and other natural resources
- 3.4 Reduce/reuse/recycle resources. Including energy, water, and solid waste
- 3.5 Foster a sustainable and resilient community that is prepared for sea level rise and a changing climate

PINELLAS COUNTY'S Strategic Plan
Our Vision: To Be the Standard for Public Service in America.

Our Mission: Pinellas County Government is committed to progressive public policy, superior public service, courteous public contact, judicious exercise of authority, and responsible management of public resources to meet the needs and concerns of our citizens today and tomorrow.

Deliver First-Class Services to the Public and Our Customers

- 3.1 Implement green technologies and practices where practical
- 3.2 Preserve and manage environmental lands, beaches, parks, and historical assets
- 3.3 Protect and improve the quality of our water, air, and other natural resources
- 3.4 Reduce/reuse/recycle resources including energy, water and solid waste
- 3.5 Foster a sustainable and resilient community that is prepared for sea level rise and a changing climate

Ensure Public Health, Safety, and Welfare

- 2.1 Provide planning, coordination, prevention, and protection services to create and enhance a safe, secure, and healthy community
- 2.2 Be a licensor, convener, and purchaser of services for those in need
- 2.3 Provide comprehensive services to connect our citizens and dependents to the benefits they have earned
- 2.4 Support programs that seek to prevent and remedy the causes of homelessness and raise families, individuals, and families to permanent housing
- 2.5 Enhance public health and public safety

Foster Continual Economic Growth and Vitality

- 4.1 Proactively attract and retain businesses with targeted jobs to the county and the region
- 4.2 Invest in transportation that meets the needs
- 4.3 Catalyze redevelopment through planning and regulatory programs
- 4.4 Invest in infrastructure to meet current and future needs
- 4.5 Provide safe and effective transportation systems to support the well-being of our citizens, commerce, and regional connectivity
- 4.6 Support a vibrant community with recreation, arts, and culture to attract residents and visitors

Create a Quality Workforce in a Positive, Supportive Organization

- 1.1 Recruit, select, and retain the most diverse and talented workforce
- 1.2 Leverage, promote, and expand opportunities for workforce growth and development
- 1.3 Make workforce safety and wellness a priority
- 1.4 Maintain a fair and competitive compensation package

PINELLAS COUNTY, FL
Solid Waste Master Plan
Zero Waste to Landfill
February 2020

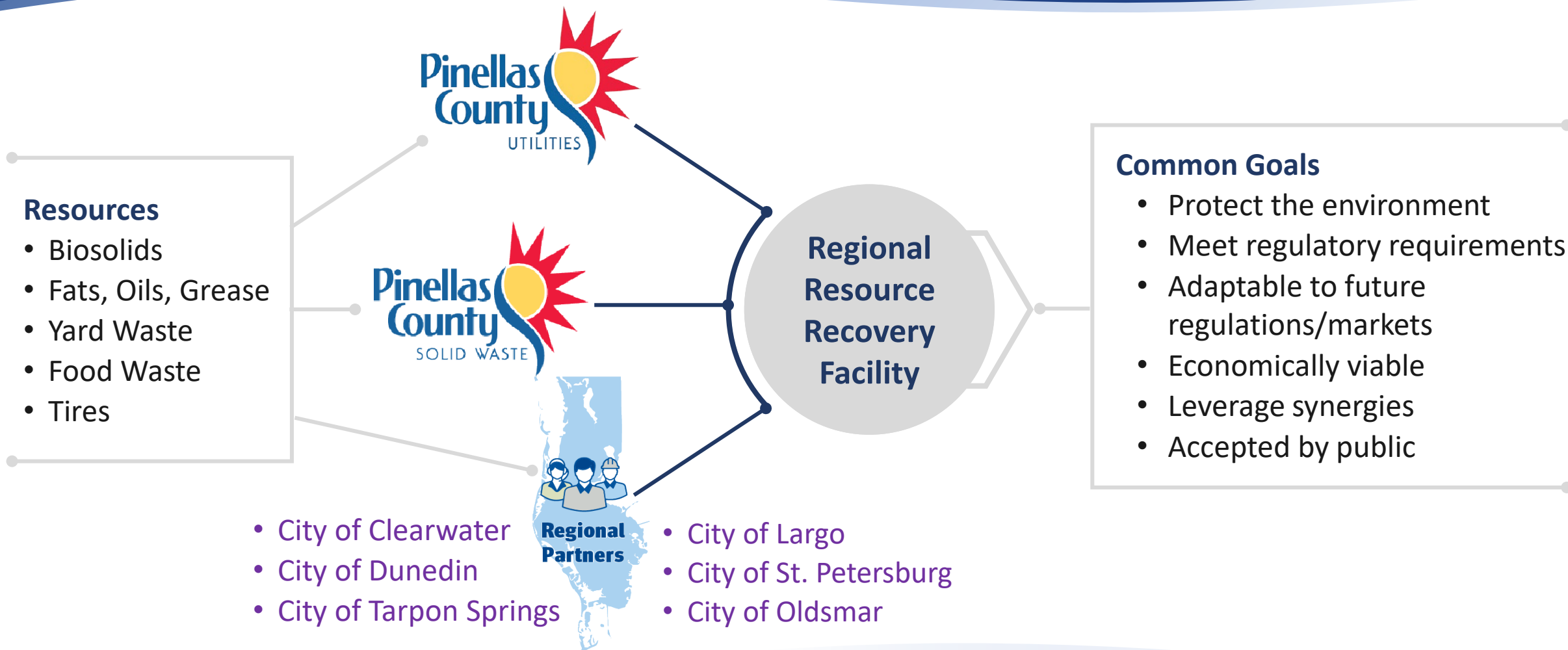
FINAL
PINELLAS COUNTY BIOSOLIDS MASTER PLAN
Black & Veatch Work Assignment #6
(Task Series 600)

PINELLAS COUNTY PID #: 003491A
BLACK & VEATCH PROJECT NO. 198733

PREPARED FOR

Pinellas County UTILITIES
Pinellas County, Florida
10 APRIL 2019

Beneficial Reuse of Resources



Pinellas County Integrated Resource Recovery Plan

RESOURCES



Wastewater Sludge



Pelletized Biosolids



Fats, Oils, Grease



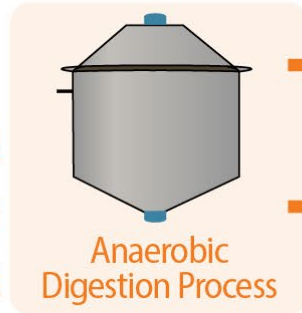
Food Waste



Yard Waste



Tires



Biogas

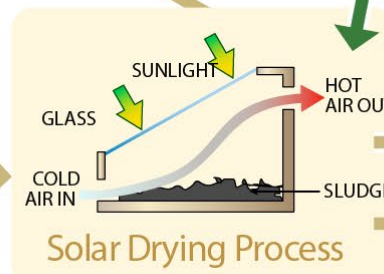
Digestate



Soil Amendment



Biochar



Dry Organic Fertilizer



Biofuel/Bioenergy
County Fleet Vehicles



Mulch

VERSATILE AND MARKET READY PRODUCTS

Project Schedule



	2022		2023				2024				2025				2026				2027				2028														
	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4											
PHASE 1 <ul style="list-style-type: none"> • Stakeholder Engagement • Technology Assessment & Alternative Evaluation • Business Case Evaluation • Preliminary Engineering Report 	[Yellow bar spanning Q3 2022 to Q4 2024]																																				
PHASE 2 <ul style="list-style-type: none"> • Continued Stakeholder Engagement • Interlocal Agreements and County Ordinances • Legislative and/or Project Funding Assistance • Design Criteria Package 											[Dark blue bar spanning Q1 2025 to Q4 2025]																										
PHASE 3 <ul style="list-style-type: none"> • Procurement • Construction of RRRF 																			[Medium blue bar spanning Q1 2026 to Q4 2028]																		

Phase 1: Preliminary Engineering Report

Project Workshops

Regional Stakeholders Engagement

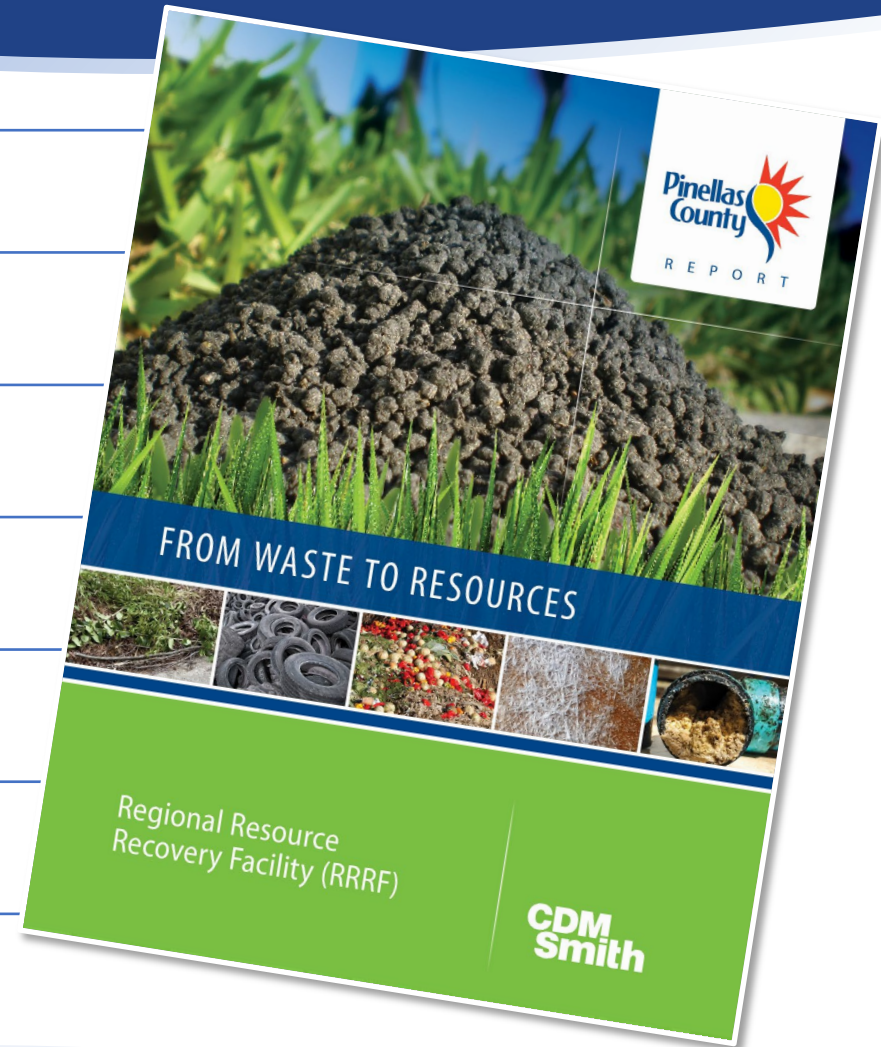
Source Materials Quantification and Characterization

Technology Assessment and Alternatives Evaluation

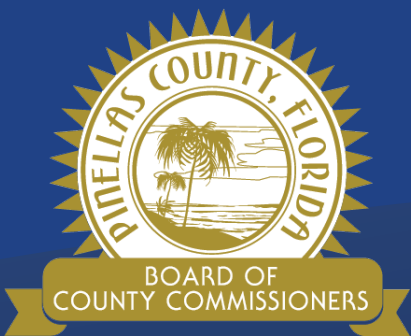
Business Case Evaluations

Preliminary Engineering Report

Project and Quality Management



Thank You!



Our Vision: To Be the Standard for Public Service in America

