

Lorri Rowlandson SVP, Strategy and Innovation Technically-led global integrated facilities management ("IFM") provider focused on providing disruptive business solutions and assured outcomes to our clients, through a culture of caring, innovation and high-performance

#### Mission

"To deliver innovative business solutions for clients with real estate portfolios, continually creating value for their stakeholders, while ensuring a sustainable, safe and comfortable environment for all."

420+ MILLION SQ FT

**40,000+** LOCATIONS

8,500+ TEAM MEMBERS

#### Vision

• We are a recognized leader in the provision of Real Estate Management Services

- We are the role model for sustainable operating practices and portfolio strategy
  - We are the employer of choice within our industry and a "Best Employer"

# **BGIS**





LEADINGINNOVATIONATWORK.COM



FROM THE ROOFTOP



LORRIROWLANDSON.COM

#### Enabling Innovation



#### FACILITY MANAGEMENT

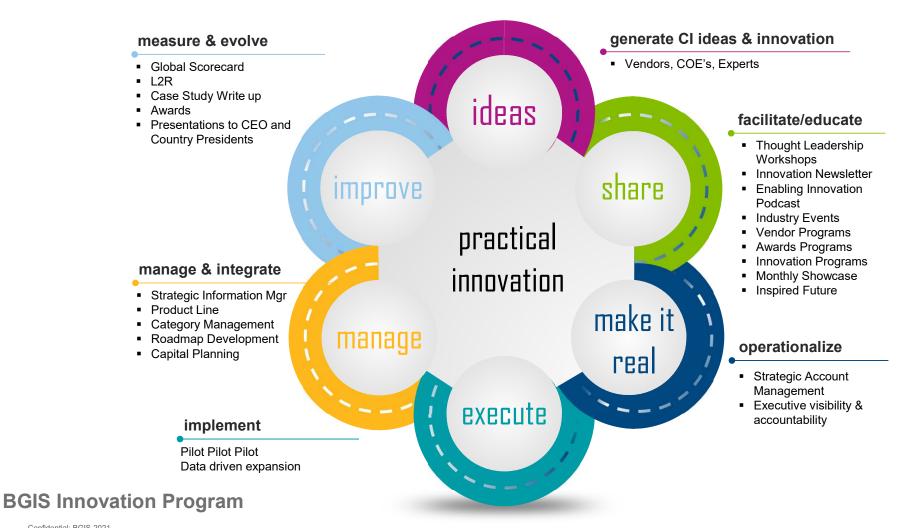
**PROJECT DELIVERY SERVICES** 

**PROFESSIONAL SERVICES** 

WORKPLACE SOLUTIONS

**REAL ESTATE SERVICES** 

## BGIS has a closed loop approach to Innovation with evidence-based outcomes

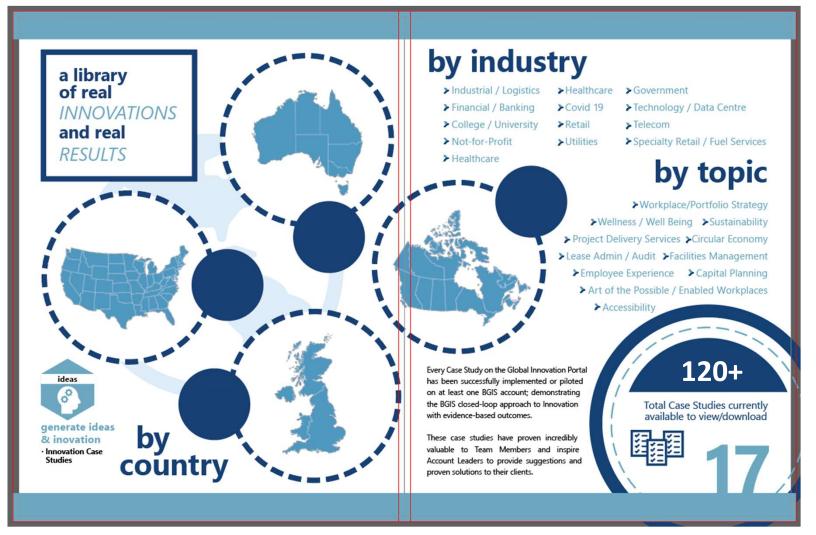


Confidential; BGIS 2021

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In 2021 BGIS added over 120 case studies to the Innovation Library.

100% of these case studies are implemented at client locations.



#### the CIRCULAR FEATURED ECONOMY: INNOVATION powered by COFFEE

#### CONSUMPTION

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The world drinks ~2.5 billion cups of coffee every day. This creates 18 million tonnes of spent coffee grounds every year, typically sent to a landfill as waste.



COLLECTION Spent coffee grounds are collected in collaboration with participating vendors and waste management and logistic infrastructures.

**Biomass products made from** recycled coffee are a heat-efficient choice for businesses looking to reduce their carbon footprint and benefit from the innovation of sustainable energy.

#### CONVERSION

The collected grounds are delivered to a factory where the coffee is conditioned and renewed for reuse in coffee pellets, logs, or biodiesel.





The new coffee pellets and logs are provided to businesses as a sustainable alternative to kindling, imported wood logs, or coal briquettes.





#### DESCRIPTION

At Ropemaker Place, BGIS Design and Engineering Teams reviewed design heat characteristics and applied the necessary technologies to deploy a solution that utilizes coffee pellets.

The site was previously using (EN regulated) compressed wood pellets to produce the raw heat material for the 1.2 meg of heat over the winter months (primary heating loop outputs demand). Segregation of coffee waste has been ongoing since 2013 with local suppliers partnering and getting involved in the first-of-its-kind conversion project.

BGIS reviewed the design heat characteristics of Ropemaker Place and calculated that under full heat load the building would consume 7 tonnes of spent coffee ground per week, rendering the secondary dual-fuel boilers as a slave to maintain supply temperatures overnight. Bio-mass technical teams demonstrated that the heat produced was adequate - however combustion testing showed that a filtration system would be required to remove noxious gases within the exhaust flue. BGIS's final design allowed both filtration and the coffee-fueled system to function in unison.



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Biomass products made from recycled coffee are a heat-efficient choice for businesses looking to reduce their carbon footprint and benefit from the innovation of sustainable energy.

# COFFEE PELLETS

Ideal for use in large commercial and industrial biomass boilers, coffee pellets displace the need to use virgin timber and reduce reliance on imported pellets.



HIGH

CALORIFIC VALUE

calorific value;

LOW

landfill as waste

#### COFFEE LOGS



Perfect for wood burners and multi-fuel virgin timber and logs, reducing reliance on



BURNS HOTTER SUSTAINABLE 25 CUPS OF AI TERNATIVE COFFEE & LONGER Coffee pellets boast a high Coffee pellets provide an alternative to traditional hotter and longer than kiln-dried wood. a value ≥15% higher than carbon-heavy fuels, virgin standard timber pellets mber and imported pellet SER FOR CLOSED SAVES ON MOISTURE CONTENT ACCREDITED APPLIANCES EMISSIONS Coffee pellets feature a low BGIS will only supply moisture content (below coffee products that are accredited by the ustainable Fuel Register

CONSUMPTION COLLECTION The world drinks ~2.5 billion Spent coffee grounds are cups of coffee every day. This collected in collaboration creates 18 million tonnes of with participating vendors spent coffee grounds every and waste management year, typically sent to a and logistic infrastructures.



COMBUSTION The new coffee pellets and logs are provided to businesses as a sustainable alternative to kindling, imported wood logs, or coal briquettes

#### ENABLING INNOVATION



City of London's most attractive yet sustainable buildings.

tower with three basements was developed by British Land. It was completed in May 2009 to best-in-class standards and comprises a rentable area of



review design

**BGIS Design & Engineering** BGIS teams have the abilities to filtration experts, and key heat Client characteristics and apply the stakeholders will necessary technologies engaged at roundtable required to deploy the workshops to review the conversion proposed options



## BGIS's BIOMASS SUCCESS AT ROPEMAKER PLACE

Segregation of coffee waste has been ongoing since 2013 with local suppliers partnering and getting involved in the first-of-its-kind conversion project.

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INTEGRATE

and

facility

he

Biomass

and

## FUELED BY COFFEE POWERED BY BGIS



🚼 MANAGE

BGIS will manage the specialized processes and logistics related 10 efficiently waste burn coffee collected from buildings and local coffee chains.

#### Measuring Utilization - an essential tool for the Hybrid office

- Monitor Actual vs. Plan occupancy (capacity)
- Monitor 'how' occupants are using the space
- Portfolio Strategy / Rightsizing
- Return to Office Capacity Management
- Maintenance procedures (janitorial, legionella monitoring, heating / cooling)
- Rightsizing space types based on actual preference.

#### Excess space contributes to excessive cost and Carbon

- \$30-\$50 s.f.
- 20 pounds of CO2 per s.f. or 1/3 of a mature tree / year
  - 25,000 s.f.
  - 30% vacancy
  - 2,250 trees / year



#### ACTION

- Vacancy Reporting to CFO cost and carbon
- Industry trends reducing 20-50% of space
- Redesign Purpose Changing space to focus on collab
- Co-working conversions

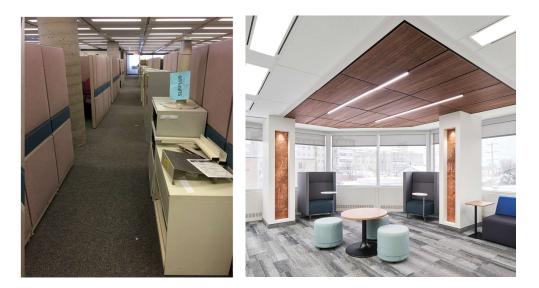


#### INNOVATION CASE STUDY - THE CHALLENGE

# SUSTAINABLE OFFICE DECOMISSIONING **BGIS**

#### WITH THE ENTIRE WORLD RETHINKING THEIR WORKPLACE... WHAT DO WE DO WITH ALL OF THE OLD FURNITURE AND WORK TOOLS OF THE PAST

BGIS Team Members on the Government of Canada Account developed a comprehensive and sustainable approach to decommissioning old office furniture and materials.



#### The Issue

- Many organizations are working to modernize their work environments flooding an already saturated used furniture market.
- The Covid-19 Pandemic is accelerating these efforts as companies work to adapt to new workforce expectations.
- Traditionally furniture items end up in the landfill as they can not be recycled as whole units

- The Solution
- Through a systematic approach to decommissioning that includes redeployment, resale, donation and deconstruction to enable recycling of components and materials.
- Our process includes detailed tracking and the use of certified recyclers to provide detailed line of sight and accurate reporting.

As we move towards workplace modernization, how do we ensure that old office furniture, equipment and materials do not end up in the landfill?

#### INNOVATION CASE STUDY - THE SOLUTION

# SUSTAINABLE OFFICE DECOMISSIONING **BGIS**

## BY ADDRESSING ALL MATERIALS AND BREAKING THEM DOWN INTO THEIR COMPONENTS WE ACHIEVE THE HIGHEST POSSIBLE LANDFILL DIVERSION RATES

We ensure accurate and detailed sorting of metals: Clean & "Dirty"

• Lateral files, storage cabinets and overhead storage bins are clean metal

#### Furniture and Equipment are separated into components:

- Work Surfaces: Plastic edge banding is removed from work surfaces and sent for recycling, wood surfaces sent for shredding and incineration
- Task lights : Plastic for recycle, Bulbs hazardous waste, 9 ft. Cord and the main frame
- Hanging Folders & Binders: Metal is separated from cardboard and plastic components

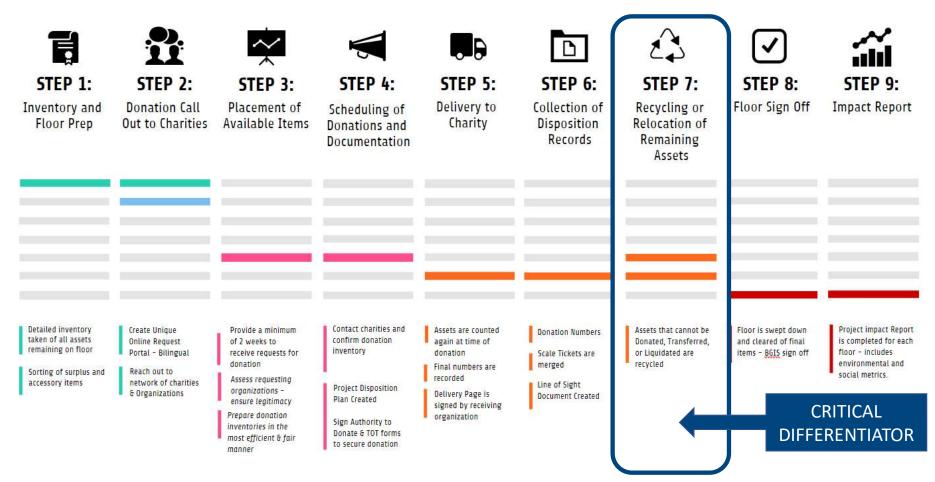






#### INNOVATION CASE STUDY - THE SOLUTION

SUSTAINABLE OFFICE DECOMISSIONING **BGIS** 



#### INNOVATION CASE STUDY - THE BENEFITS

# SUSTAINABLE OFFICE DECOMMISSIONING **BGIS**

- The initial pilot project identified a **20% savings** compared to the traditional approach
- Significant increase in diversion rates
- Benefits to charities, schools and other local organizations
- We also think ... it is simply the right thing to do!



Total furniture waste diverted to date across active and completed projects is 1014.98 tons, equivalent to 2,538 average Canadian male moose



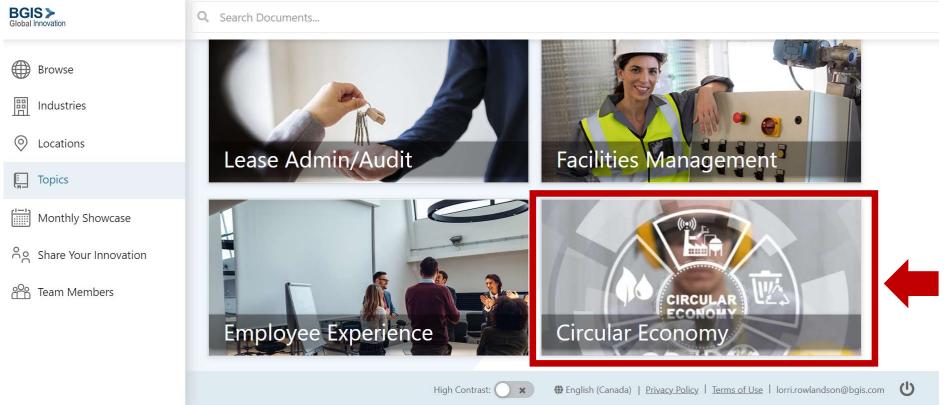
#### Sample Project:

- 84 floors, spread across 5 towers
- Approximately 79,600 sq/m of usable space
- 4,500 Government Employees

#### Content to be Decommissioned:

- 4,569 workstations
- 378 office suites
- 174 meeting rooms
- 7,820 chairs
- 5,268 filing cabinets

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Do you have an offering that qualifies as a Circular Economy Solution? We want to hear from you! innovation@bgis.com

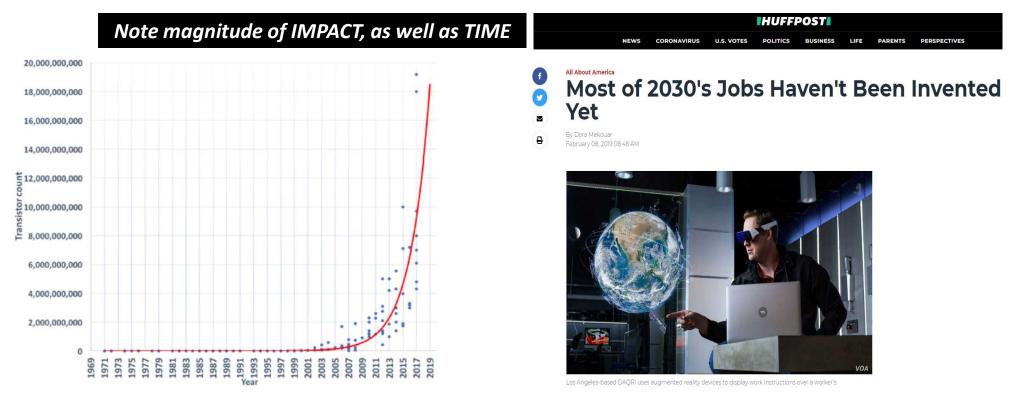


# PART 2: IS PROCUREMENT EVOLVING FAST ENOUGH TO SUPPORT INNOVATION AGENDAS?



Disruption is radical change to an existing industry or market due to technological innovation. No industry is immune to digital disruption.

We are going to experience more change in this decade than the last 50 years

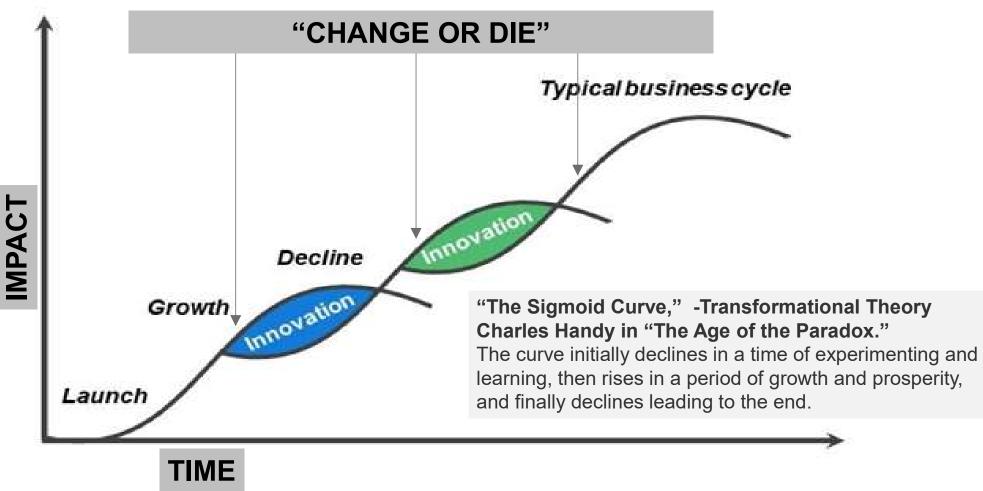


Gordon Moore, one of the pioneers of integrated circuits, predicted that the **number of transistors** that could be fit on one chip would double every two years. This prediction is known as **Moore's Law.** 

 $https://bjc.edc.org/bjc-r/cur/programming/6-computers/2-history-impact/2-moore.html?topic=nyc_bjc%2F6-how-computers-work.topic&course=bjc4nyc.html&novideo&noassignment$ 

https://www.voanews.com/usa/all-about-america/most-2030s-jobs-havent-been-invented-yet

S Curve – Launch, Growth, Decline..... Change or Die



BGIS



"Although 84% of executives agree that innovation is important to growth strategy, only 6% are satisfied with innovation performance."

**McKinsley Global Innovation Survey** 



We need to invest in Innovation as much as we do Risk and Governance

## IMPACT / CHALLENGE

 Innovation will drive new levels of value, and is essential to survival. It is pervasive, no business will remain untouched.

#### **OBSERVATIONS**

- Procurement disproportionately invests in Risk and Governance
- (Lack of Innovation is a risk too)

#### MANIFESTO

- Sourcing can become catalysts of a competitive advantage for the business if we
- We need to get 'great' at facilitating innovation
- Our need to manage business risk will go way up, but so will our need to manage innovation



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## We are still obsessed with Savings vs. TCO and Value

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#### IMPACT / CHALLENGE

- Low hanging fruit extinction
- Value is achieved by more sophisticated ecosystems

### OBSERVATIONS

- Perverse Incentives; Obsession with savings vs. value
- Domino effect is not visible or accountable for outcomes; Disruption to the business

#### MANIFESTO

- We must acknowledge the bigger ecosystem of value potential and our impacts (TCO)
- We must change the way we are accountable for value (not just cost reduction)

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MAINTENANCE \$3-5 S.F.	WORKSPACE \$30-\$50 S.F.	PEOPLE \$300-\$500 S.F.
<ul><li>Janitorial</li><li>Maintenance</li></ul>	<ul><li>Quantity of s.f.</li><li>Cost / s.f.</li></ul>	<ul><li>Amount of FTE</li><li>Type of FTE</li></ul>

• Location of FTE

200000 100000

## IMPACT / CHALLENGE

- Innovation is changing business at an unprecedented pace.
- Survival of business depends on innovative transformation "Change or Die"

### **OBSERVATIONS**

- Stale SOW's
- Lack of thinking outside the contract box
- 10% Savings is not sustainable

#### MANIFESTO

- Early renewal strategy
- Plan to challenge 'how' to achieve outcomes, early in renewal
- Evolve Category Management
- Focus on CRM relationships



# SCOPE OF WORK



## IMPACT / CHALLENGE

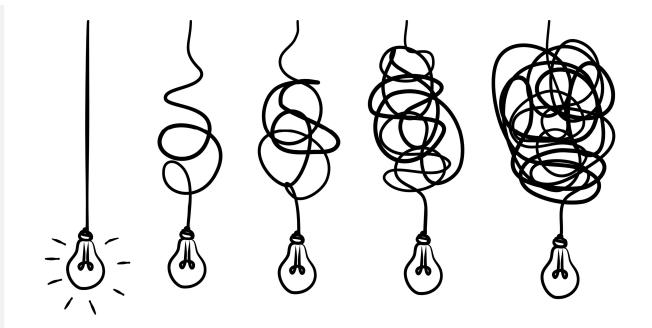
- Solutions are becoming more complex and sophisticated 'ecosystems'
- Bigger value potential (1+1=3)

#### **OBSERVATIONS**

- We are generally more comfortable with transactions and products.
- We are less equipped to buy solutions because they are harder to compare
- How vs. What

#### MANIFESTO

- Stronger development of expertise to buy services and solutions
- Buy outcomes vs. individual parts



We managed tasks vs. outcomes – the industry is moving to utility and as a service. We need to say what we want and not what to achieve.



## IMPACT / CHALLENGE

- As solutions become more sophisticated, it will require a complex list of stakeholders in order to achieve efficient buy in and approvals.
- PRIVACY, Information Security, HR, IT, Real Estate, Facilities, Physical Security often converge

#### **OBSERVATIONS**

- We will need to deal with a much wider spectrum of multiple CRM Stakeholders
- Most business units still tend to 'stay in their lane'.
- Bureaucracy is also a risk

#### MANIFESTO

- Proactively anticipate more multi stakeholder solutions.
- Build relationships and evaluation teams that anticipate approvals and necessary change



Category Management must understand industry innovations and disruptive influences, and proactively engage with the business to ideate transformation

## IMPACT / CHALLENGE

- Innovation is of growing importance.
- Traditional approaches risk slowing us down.'

#### **OBSERVATIONS**

- Innovation is often a contractual expectation le: 1/Q
- Often lacking in collaboration
- Goals lead vs sales lead
- Short term / opportunistic

#### MANIFESTO

- A collaborative approach towards innovation is proven more effective
- Planning accelerates progress
- "2 in a box", "I win you lose" (Kate Vitasek)
- Deep innovation comes from longer term contract relationships
- Buy outcomes (what vs. how)







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## IMPACT / CHALLENGE

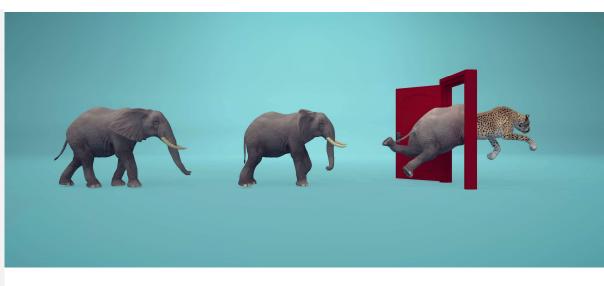
- Change is increasing exponentially
- Technology changes faster than humans
- "70% of organizations that undertake a change do not achieve the results intended"

### **OBSERVATIONS**

- Expectations are not enough we need to acknowledge the people
- We play a leadership role the vendors can only do so much
- Communicate, Communicate, Communicate
- A good idea poorly implemented is a bad idea (Change Mgt = Risk Management)

## MANIFESTO

- We need to become Ambassadors of Change.
- Change Management is a key success ingredient for our future. A disciplined approach will significantly increase the likelihood of success.





ADKAR Awareness, Desire, Knowledge, Ability and Reinforcement—the elements an individual needs to move through to achieve successful change: The ADKAR Model describes successful change at the individual level.

## IMPACT / CHALLENGE

• Sustainability objectives are not moving fast enough

### MANIFESTO

- Change the SOW and standards to include permanent positions on sustainability.
- Seek buy in for the business for these changes ie: Dandelions vs. pesticides
- Circular Economy
- "Sourcing is the biggest contributor to our carbon neutrality, driving results"



