

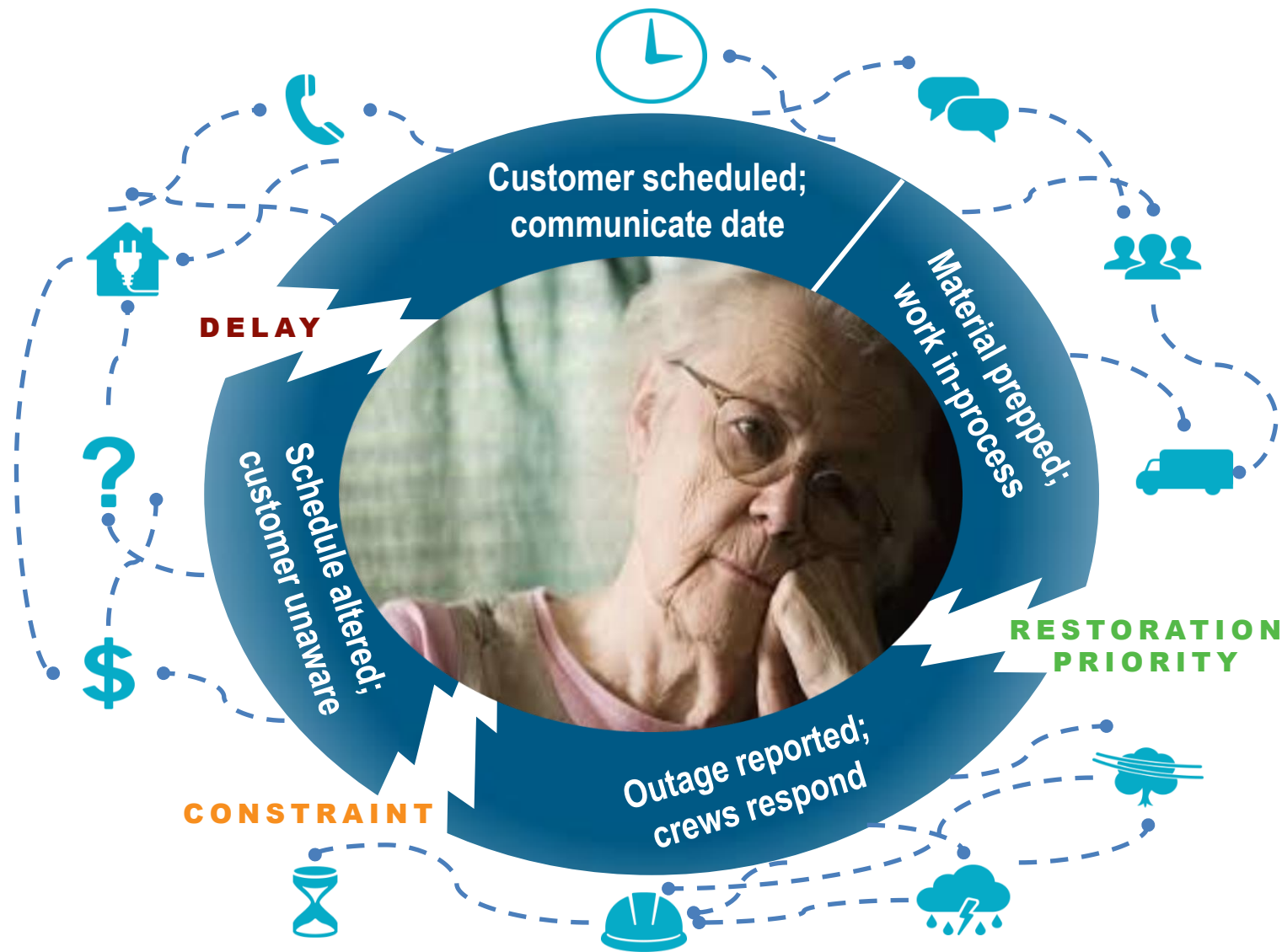


FLIGHTDECK

OPERATIONS



SERVICE AGILITY IN A “FIXED ASSET” INDUSTRY



MODERN INDUSTRY



JUST AN OLD & SLOW UTILITY COMPANY?









IF YOU'RE
READING
THIS ITS
TOO LATE



LITTLE ROCK OPERATION CENTER

PRIMARILY SERVING
CHARLOTTE METRO

136,502
CUSTOMERS

36 Duke
Line Resources

Contractor
Line Resources **132**



1,031
MILES OF
OVERHEAD LINE

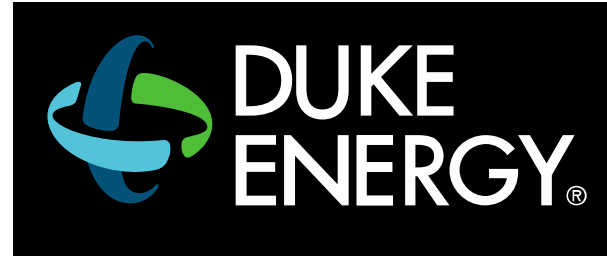




BUSINESS AGILITY ENGINE

BUSINESS AGILITY: Rapid Response Elements

- PEOPLE
- PROCESS
- TECHNOLOGY
- FACILITIES

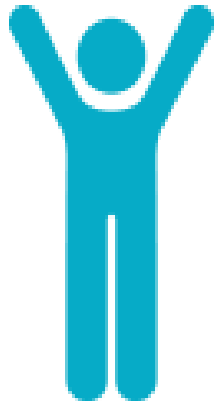


FOCUS.




SIMPLIFY.

ALWAYS IMPROVE.

DAILY FLIGHT PLAN RHYTHM



**Work Readiness Controller
“Air Boss”**

PLAN 	Conduct Post Flight Activities <ul style="list-style-type: none"> • Validate job schedule and job site readiness • Identify Financial and Operational Performance Dashboard Trends • Weekly audit of Personnel Management with C&M Supervisor (authorized vacations, callout impact, emergency vacations)
DO & CHECK 	Conduct Pre-Flight Activities <ul style="list-style-type: none"> • Validate “Get Rolling” achievement • Identify impediments • Conduct Initial Gemba Walk • Review Financial and Operational Performance Outcomes Objectives with C&M Team <ul style="list-style-type: none"> ○ Non-Restore OT ○ Rest Time ○ O&M Capital Split ○ Customer Commitments ○ Vehicle/Asset Utilization ○ Contractor Utilization • Participate and Lead “Communicate and Commit” Strategic Focus in the Weekly Flight Plan Huddles. • Enforces accountability for Customer SOS (See it, Solve it, Own it) by challenging the team with questions. <ul style="list-style-type: none"> ○ “Why are job sites not ready?” ○ “Why aren’t the CUs updated?” ○ “Why didn’t we call the customer from the beginning of the order?” ○ “Why haven’t the materials been pre-checked prior to job site delivery?” ○ “Why are we managing the target start dates on the work order?”
ADJUST 	Conduct In-Flight Activities <ul style="list-style-type: none"> • Gemba Walk review with C&M • Collaborate for next day’s priorities • Update impediment tracker of resolved/open issues • Allocate resources • Review current day and adjust for next day operations Conduct Post Flight Activities <ul style="list-style-type: none"> • Daily Retrospective with C&M Supervisors and Specialist • Daily Retrospective with each line technician: “Did you have a good day?” • Document any Customer Mission Failures impediments for that day, assigns an owner, and updates the impediment tracker with the open barrier. • Review work completed/upcoming work with C&M Specialist (Routine, Construction, DTUG) • Engages the Contractors General Foreman to review work packets completed • Next Day Planning: communicates if any capital OT is required to complete work or attach long lead times for customer work.

RED *PLANNING, SCHEDULER, DCC*

YELLOW *WORK READINESS CONTROL
"AIR BOSS", GRID MANAGEMENT*

GREEN *SUPPLY CHAIN*

BLUE *CONSTRUCTION & MAINTENANCE
& CONTRACTOR OVERSIGHT*

PURPLE *PROJECT
MANAGEMENT*

BROWN *PQR&I AND DESIGN
ENGINEERING*

WHITE *WORK
MANAGEMENT
SPECIALIST*



A low-angle photograph of a utility worker in a bucket, overlaid with a blue filter and the text 'AGILE PEOPLE'. The worker is wearing a white hard hat and is positioned in the center of the frame, looking towards the camera. The bucket is white and has a logo on it. The background shows a network of power lines and trees. The text 'AGILE PEOPLE' is written in a bold, white, sans-serif font, centered between two horizontal white lines.

AGILE PEOPLE

EMPLOYEE FOCUS GROUPS, CUSTOMER VERBATIMS, & GEMBA WALKS

"No one is responsible for ensuring a job is done."

"Engineering does not have ability to communicate the start date to the customer."

"We need a better method or process for Developers & Builders to request and track work orders."

"I spend 30-40% of my time investigating project status with internal departments so I can respond to my Customer."

"We have trouble getting material in a timely manner, and it negatively effects the customer."

"The customer notifies Duke when we miss a date."

OUR TEAMS

KAIZEN BLITZ



CUSTOMER



ENGINEERING



SCHEDULING



MATERIALS



LABOR



FLIGHTDECK
OPERATIONS

 DUKE
ENERGY

A low-angle photograph of a utility worker in a bucket, overlaid with a blue filter and the text 'AGILE PROCESSES'. The worker is wearing a white hard hat and is positioned in the center of the frame, looking towards the right. The bucket is white and has a logo on it. The background shows a network of power lines and trees. The text 'AGILE PROCESSES' is written in a bold, white, sans-serif font, centered between two horizontal white lines.

AGILE PROCESSES

SPRINT 7 OVERVIEW

CUSTOMER



FLIGHTDECK
OPERATIONS





SCHEDULING LEAD TIMES



“AS A CUSTOMER I WOULD LIKE
SHORTER LEAD TIMES ON
SMALL SCOPES OF WORK”



STORY 1

B E F O R E

- SCHEDULING OH JOBS 4-6 WEEKS OUT
- CUSTOMERS ARE WAITING TOO LONG FOR SMALL REQUESTS
- FREQUENT RESCHEDULES
- NOT MEETING COMMIT DATES
- CREWS GETTING PULLED OFF JOBS

A F T E R

- SCHEDULE OH JOBS 6 DAYS OUT (NOT WEEKS)
- SCHEDULE ADHERENCE
- FOCUSED CREWS NOT BEING PULLED OFF THEIR JOBS
- DEDICATED CREW
- EXPOSING ISSUES WITHIN OUR PROCESS



CURRENT PROCESS FOR HOW SMALL JOBS ARE COMPLETED

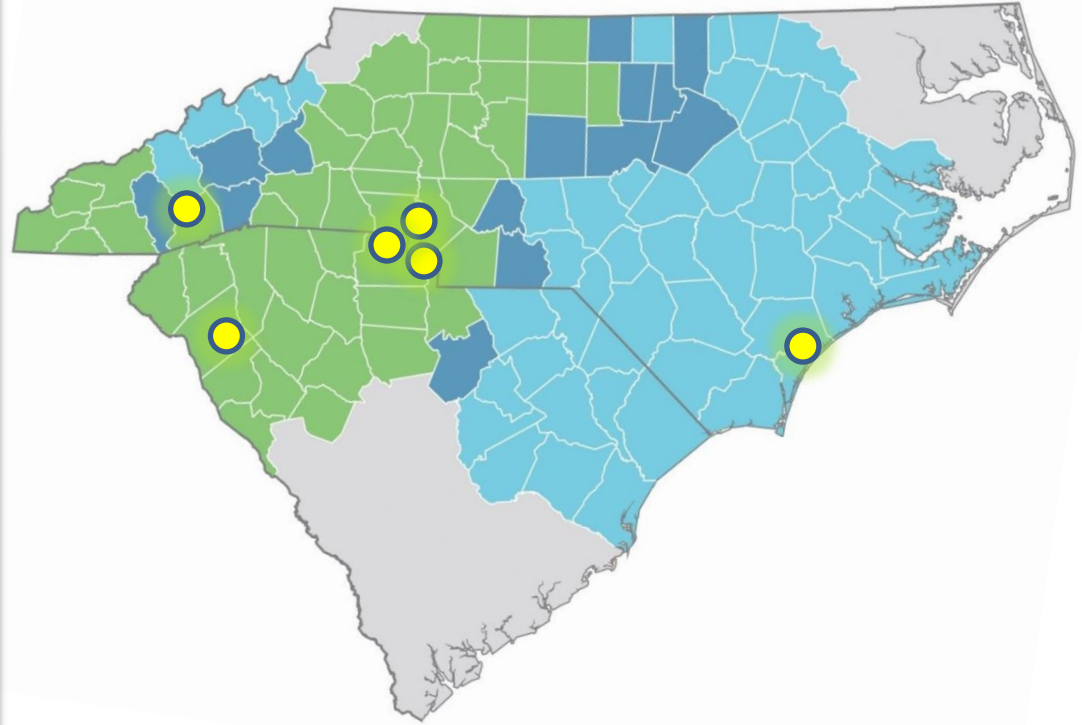


NEW PROCESS: CUSTOMER QUICK REACTION FORCE



CURRENT STATUS

- Little Rock, Newell, Matthews, Wenwood, Wilmington and Asheville are all currently piloting the Customer Quick Response Force (C-QRF)
- This gives a diverse group of Op Centers accounting for:
 - Customer Needs
 - Geographic Terrain
 - Rural vs Urban
 - Residential, Commercial, Industrial Profiles



A low-angle photograph of a utility worker in a bucket, overlaid with a blue filter and the text 'AGILE WORKSPACES'. The worker is wearing a white hard hat and is positioned in the center of the frame, looking towards the right. The bucket is white and has a logo on it. The background shows a network of power lines and trees, suggesting a utility or construction site. The text 'AGILE WORKSPACES' is written in a bold, white, sans-serif font, centered horizontally and partially enclosed by two thin white horizontal lines.

AGILE WORKSPACES

KNOWLEDGE WORK EQUALS FOUR WORK MODES

WORK INTERACTIONS THAT CREATE
COMMON BONDS AND VALUES,
COLLECTIVE IDENTITY, COLLEAGIALITY
AND PRODUCTIVE RELATIONSHIPS

TALKING, LAUGHING, NETWORKING,
TRUST-BUILDING, RECOGNITION,
CELEBRATING, INTERACTING,
MENTORING, ENHANCING RELATIONSHIPS

Gensler research shows that people spend an
average of 6% of their time in social activities.



SOCIALIZE

SOCIAL CAPITAL

WORKING TO ACQUIRE NEW
KNOWLEDGE OF A SUBJECT OR SKILL
THROUGH EDUCATION OR EXPERIENCE

TRAINING, CONCEPT EXPLORATION
AND DEVELOPMENT, PROBLEM-
SOLVING, MEMORIZING, DISCOVERY,
TEACHING, REFLECTING, INTEGRATING
AND APPLYING KNOWLEDGE

Gensler research shows that people spend an
average of 6% of their time learning.



LEARN

INTELLECTUAL CAPITAL



FOCUS

PRODUCTIVE CAPITAL

WORK INVOLVING CONCENTRATION
AND ATTENTION TO A PARTICULAR
TASK OR PROJECT

THINKING, REFLECTING, ANALYZING,
WRITING, PROBLEM-SOLVING,
QUANTITATIVE ANALYSIS, CREATING,
IMAGINING, REVIEWING, ASSESSING

Gensler research shows that people spend on
average 48% of their time in focus work.



COLLABORATE

INNOVATIVE CAPITAL

WORKING WITH ANOTHER PERSON OR
GROUP TO ACHIEVE A GOAL

SHARING KNOWLEDGE AND INFORMATION,
DISCUSSING, LISTENING, CO-CREATING,
SHOWING, BRAINSTORMING
INTERACTIONS MAY BE FACE-TO-FACE,
BY PHONE, VIDEO, OR THROUGH VIRTUAL
COMMUNICATION

Gensler research shows that across all companies,
people spend an average of 32% of their time
collaborating.

BEFORE – FRONT ENTRY WAY



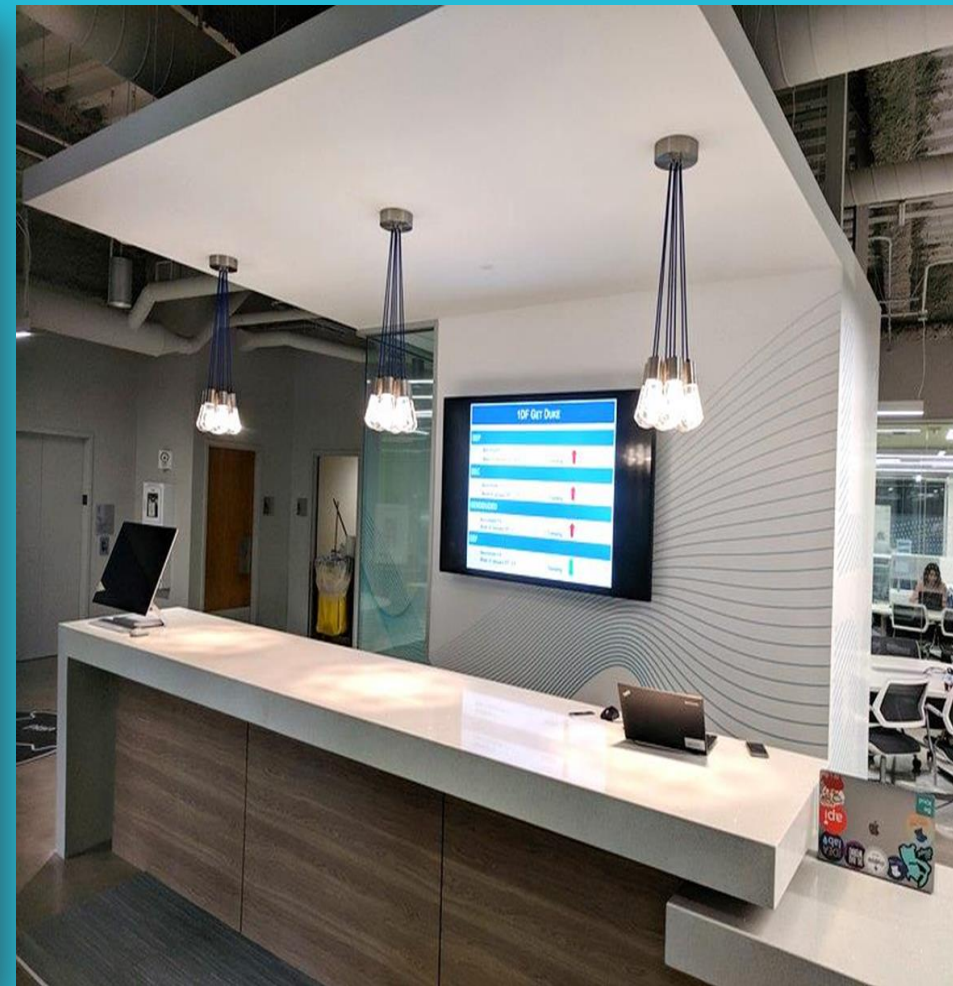
AFTER – AGILE NEIGHBORHOOD PODS



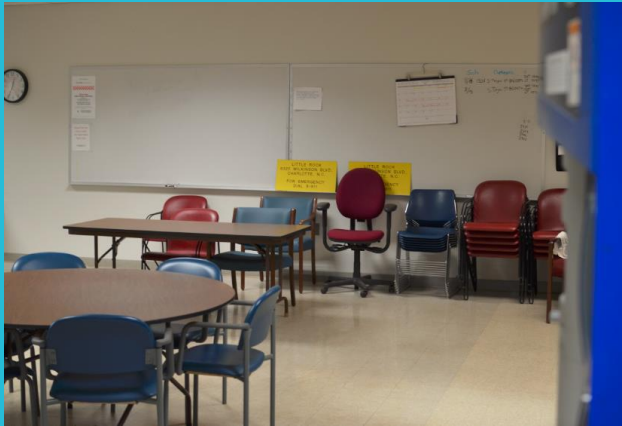
BEFORE – 2ND FLOOR ENTRYWAY



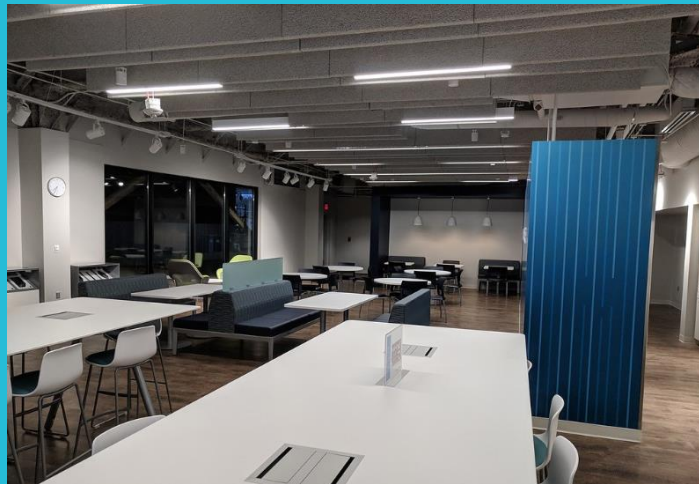
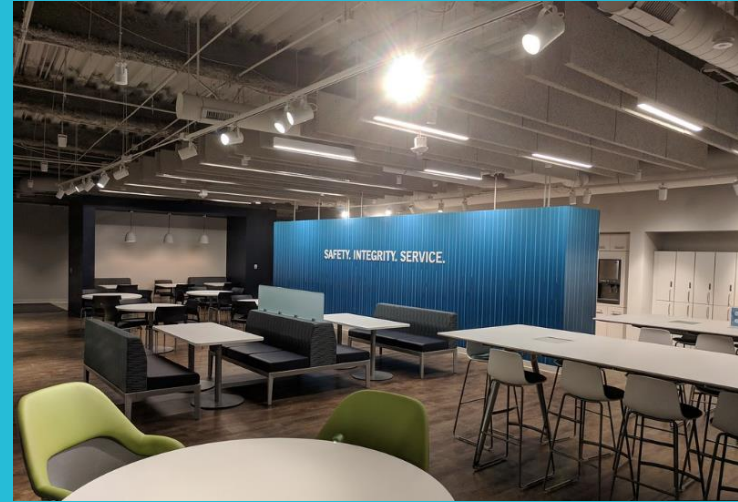
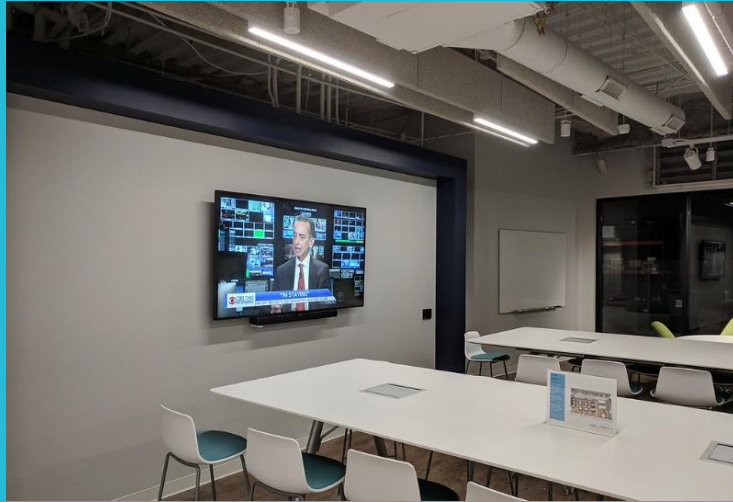
AFTER – READY TO WORK “STAND UP ROOM” & VISUAL PERFORMANCE MGMT.



BEFORE— BREAK ROOM



AFTER – REFRESH CAFE



A low-angle photograph of a utility worker in a bucket, overlaid with a blue tint and the text 'AGILE DIGITAL STRATEGY'. The worker is wearing a white hard hat and is positioned in the center of the frame. The background shows a network of power lines and trees. The text is in a bold, white, sans-serif font, centered horizontally and flanked by two horizontal white lines.

AGILE DIGITAL STRATEGY

IT Idea Lab Partnership



Flight Deck Operations has partnered with IT to stand up an idea lab at Little Rock to deliver a platform that will:

- **Increase transparency** within 1DF Operations.
- **Drive customer satisfaction** and **resource optimization**.

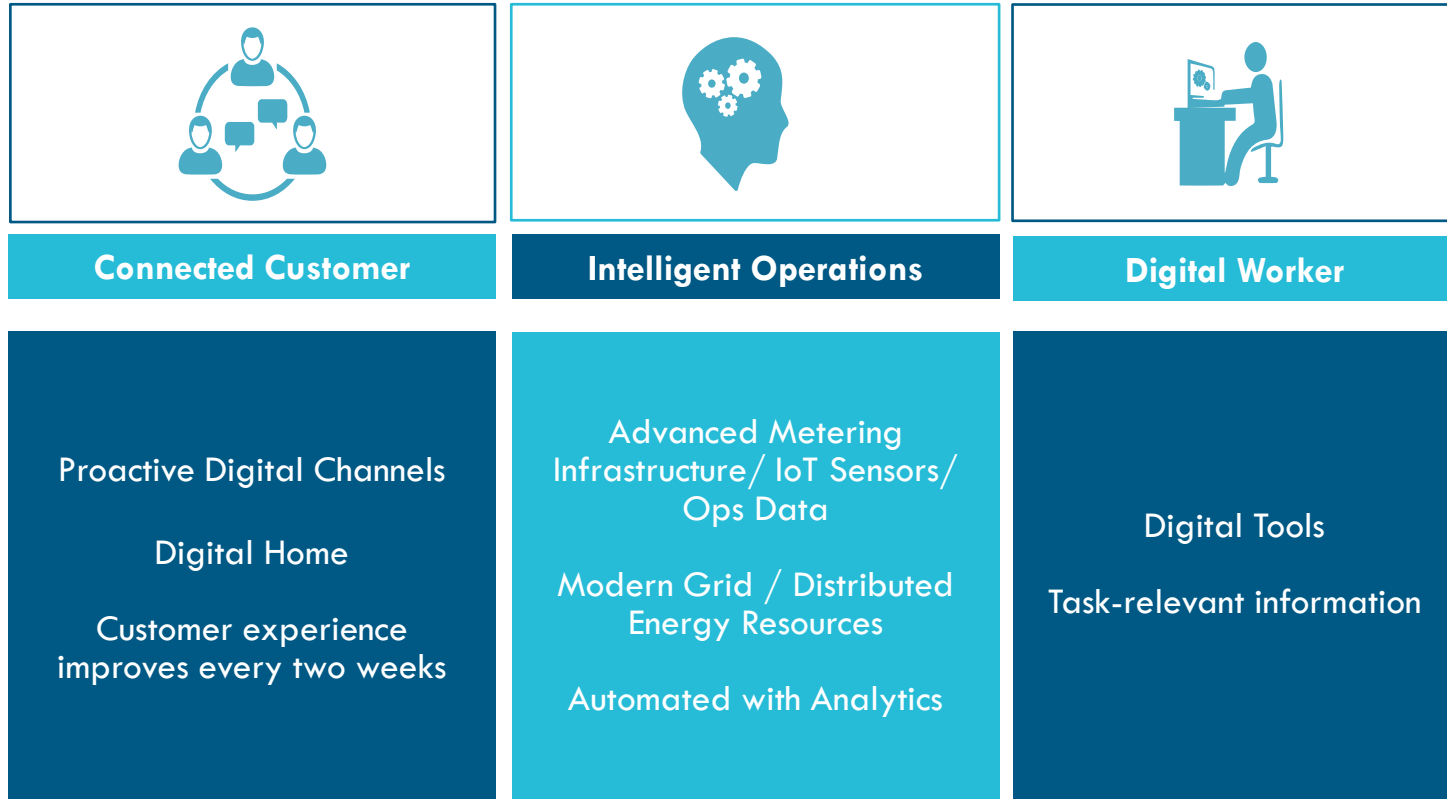
By leveraging existing and emerging technologies, the IT Idea Lab has worked with the Flight Deck Agile team to build and develop amazing solutions that bring value to our teammates throughout each of the flight deck focus areas.

The **1DF Resource Optimization Command Center (ROCC)** was constructed as a part of the renovations at Little Rock Ops Center and will host the new platforms. We are re-imagining how work gets done in a unified and collaborative environment that puts our customers first and keeps them informed along the way.

GROWTH:

REDEFINING DUKE ENERGY WITH DIGITAL

Creating delightful experiences and valued outcomes with digital enablement

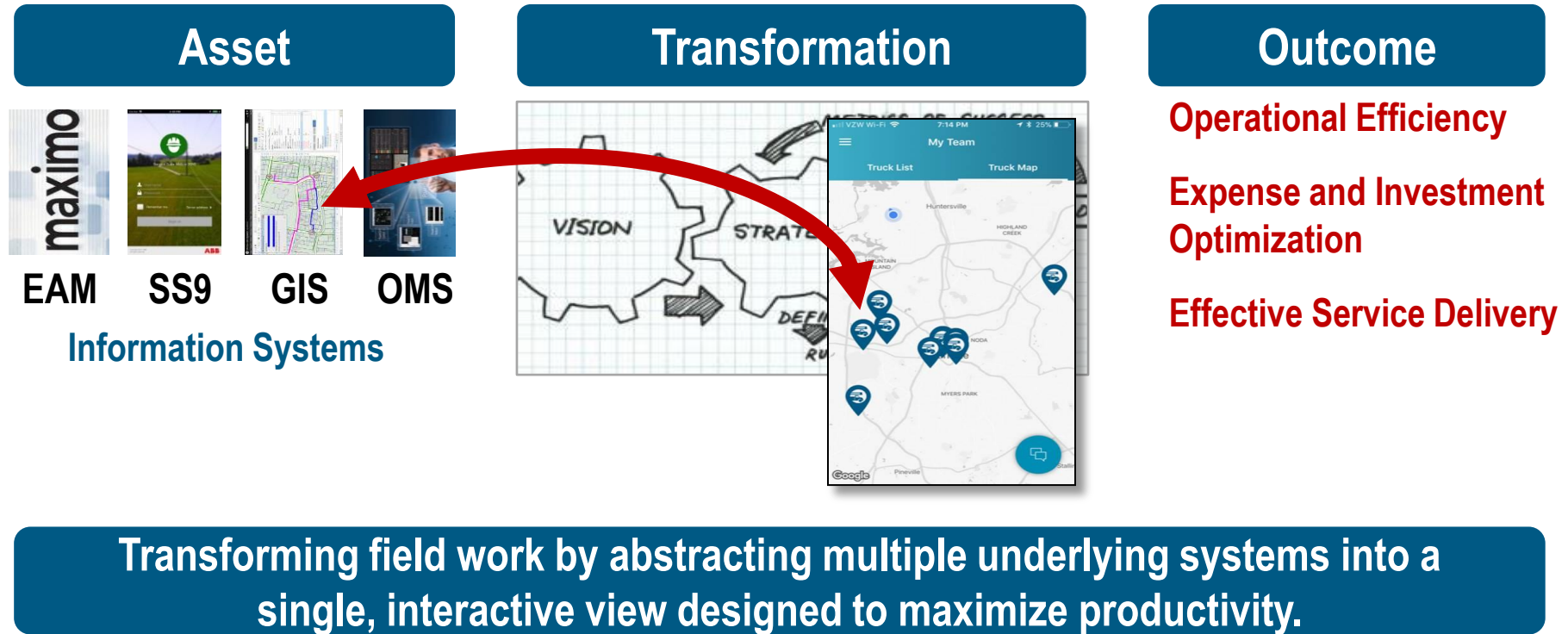




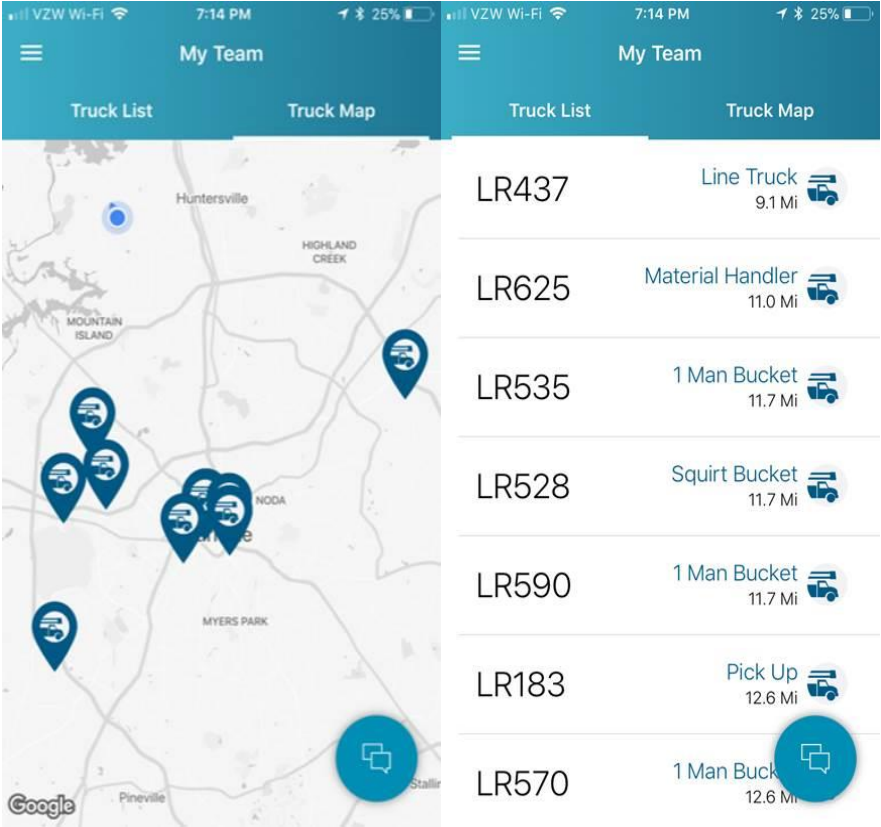
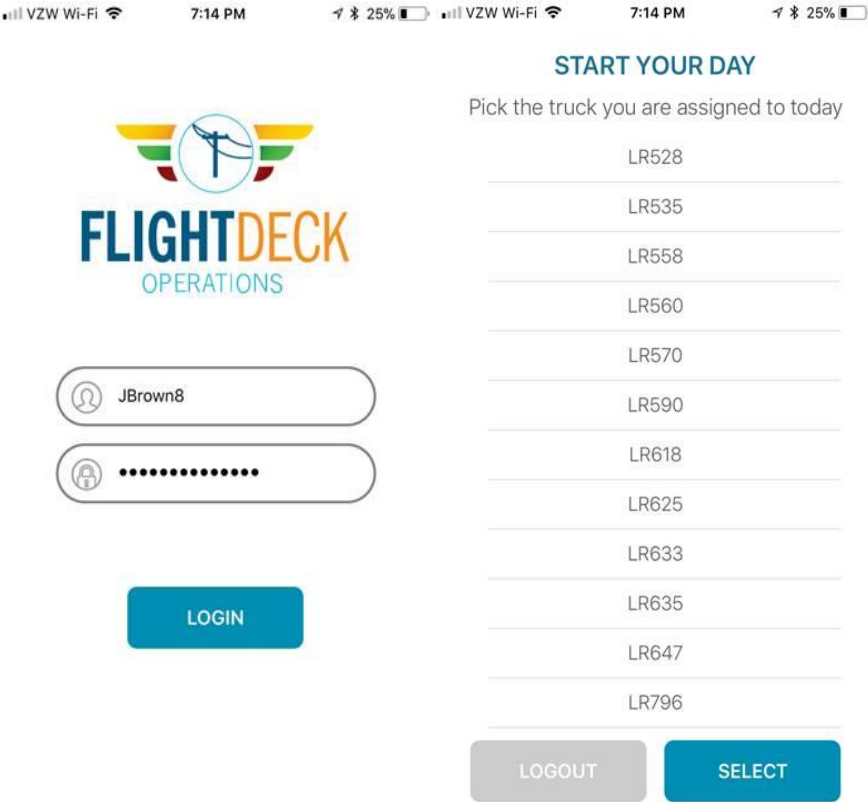




1DF Flight Deck: Driving 10X Operational Efficiency



LINE TECH MOBILE APP SCREEN SHOTS





AS A BUILDER OR DEVELOPER, I WANT TO BE INFORMED WHEN AN ACCELERATED UNDERGROUND SERVICE WILL BE WORKED SO THAT I KNOW WHEN MY HOUSE WILL HAVE POWER.

AS A BUILDER, I WANT AN EASY WAY TO DECLARE MY SITE READY, SO THAT I CAN SAVE TIME AND FRUSTRATION.

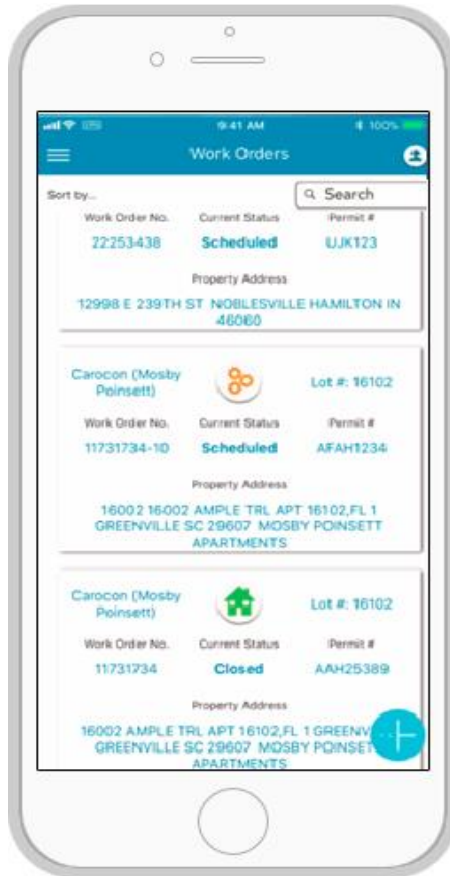
B E F O R E

- LACK OF BUILDER VISIBILITY INTO WORK ORDERS
- NO CONSISTENT NOTIFICATION OF PROJECT MOVES ON THE SCHEDULE
- DIFFICULT TO DECLARE SITE READY OF CHECK ON JOB STATUS
- NO POINT OF CONTACT

A F T E R

- TEAMED WITH THE 1DF BUILDER-DEVELOPER SCRUM TEAM TO PILOT APP.
- STATUS OF WORK ORDER AND WORK ORDER TASKS.
- DECLARE JOB SITE READINESS
- REDUCTION IN CALLS TO CCO.
- REDUCTION IN EXPEDITES FROM ESCALATED COMPLAINTS.

BUILDER/DEVELOPER APP



IMPLEMENTED:

- CREATE LIST OF WORK ORDERS
- WORK ORDER STATUS
- WORK ORDER TASK STATUS
- SEARCH BY WORK ORDER NUMBER

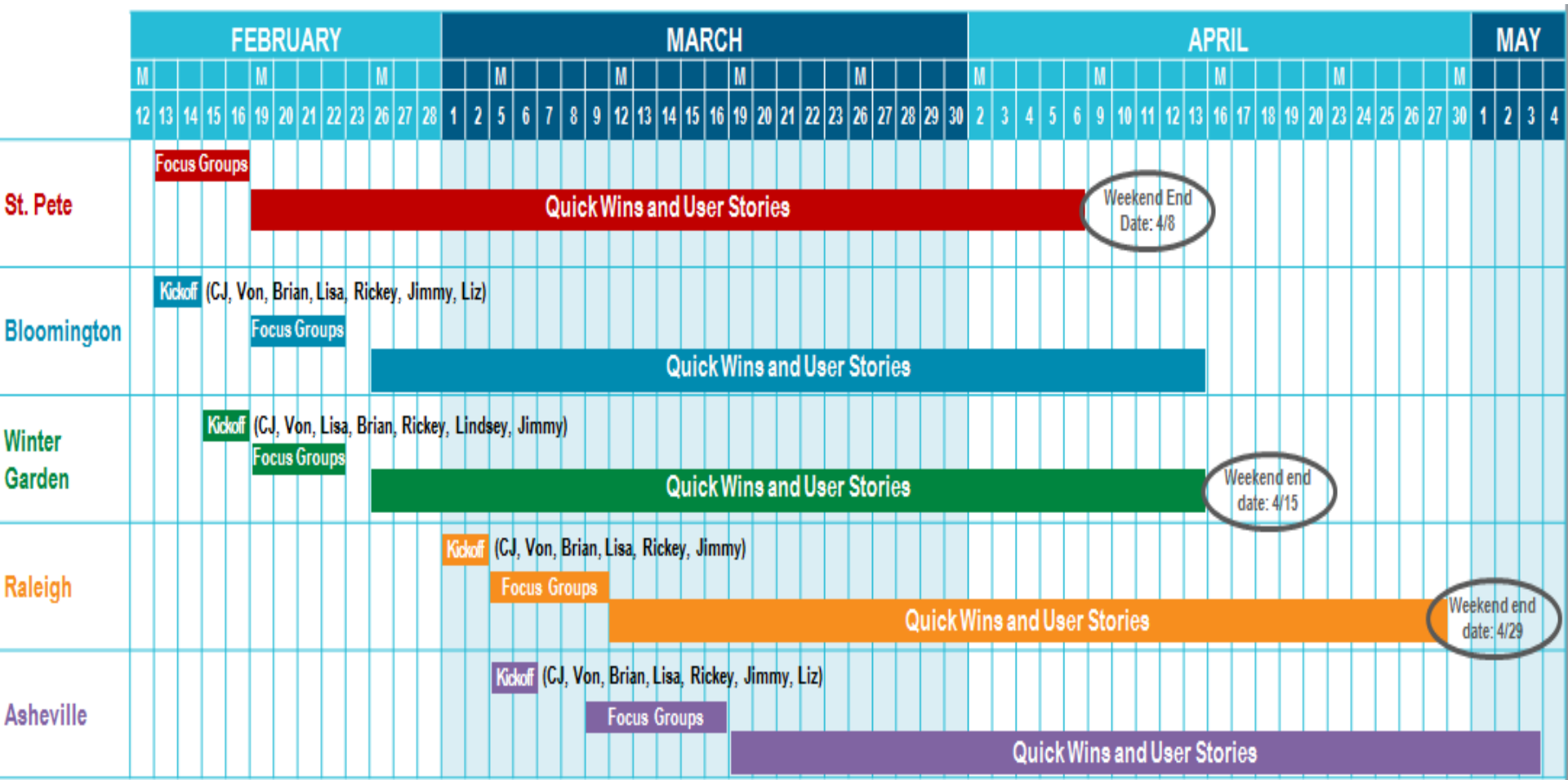
NEXT:

- ANDROID-COMPATIBLE
- SEARCH BY ADDRESS
- CREATE SUB-LISTS
- DECLARE SITE READY
- SPOC CONTACT INFORMATION
- PUSH NOTIFICATION WHEN SCHEDULE CHANGES.
- PUSH NOTIFICATION REMINDERS OF OUTSTANDING CUSTOMER OBLIGATIONS

A low-angle photograph of a utility worker in a bucket, overlaid with a blue filter and the text 'AGILE SCALING'. The worker is wearing a white hard hat and is positioned in the center of the frame. The bucket has a logo on it. The background shows a network of power lines and trees. The text 'AGILE SCALING' is written in white, bold, sans-serif font, centered between two horizontal white lines.

AGILE SCALING

SMART AGILE SCALING: LOCALIZES BUSINESS AGILITY ENGINES



2018 FLIGHT DECK DEPLOYMENT

2018										
FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
<ul style="list-style-type: none">• St. Pete: Feb. 8-9• Bloomington: Feb. 13-14• Winter Garden: Feb. 15-16• Raleigh: Mar. 1-2• Asheville: Mar. 5-7				<ul style="list-style-type: none">• 7 Springs• Apopka• <u>Brecon</u>• Buena Vista• Clearwater• Durham• Fairfax• Fairfield• Fuquay• Hamlet• Little Miami• Newell• Ocala	<ul style="list-style-type: none">• <u>Queensgate</u>• <u>Todhunter</u>• <u>Walsingham</u>• Wenwood17		<ul style="list-style-type: none">• Matthews• Spartanburg• Salisbury• Hickory• Anderson• Gastonia• Florence• Zebulon• Henderson• Cape Fear• Wilmington S• Lewisville	<ul style="list-style-type: none">• Hartwell• Dana• Terre Haute• Noblesville• Clarksville• Bloomington• Longwood• Inverness• <u>DeLand</u>• Jamestown• SEO 23		



OUTCOMES



