

#### **Ipswich IT Team**

#### **Technology Department**

- Technology Specialists
  - Diane Arsenault
  - Derek Deacon
  - Bill Ford
- IT Director Jeannie Frash

Technology Integration Specialist/Coordinator – Chris Burke

#### Objectives

#### Significant Accomplishments 2014

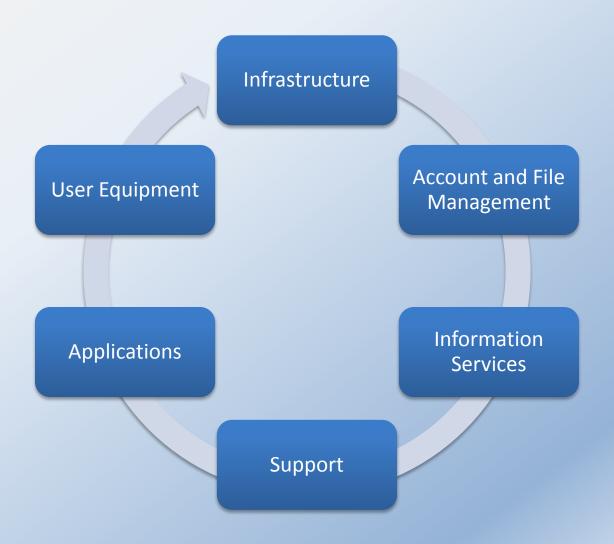
#### **Project Details**

- Description
- Current & Future State
- Realized Benefits

#### **Upgrade Status**

- Phase 1 Infrastructure
- Phase 2 Classroom

#### **IT Core Areas**



#### Infrastructure

- Fiber connected schools
- High-capacity switches
- High-speed network cabling
- Secure wireless system
- Virtual server system
- Robust dedicated firewall
- 5x faster internet access
- Centralized antivirus server



#### Account and File Management

- Single domain structure (ipsk12.net)
- Automated account creation
- Centralized print server
- Centralized multipurpose file sharing
- Email and files migrated to new domain
- Email archiving
- Other service accounts integrated



#### Information Services

- Destiny new library catalog system
- NutriKids new school lunch program
- Blackboard Connect new notification system
- Edline new website is functional
  - Additional content migration in progress
- Aspen new student information system



#### Support



- Inventory database of equipment
- Server based computer imaging system
- Online registration forms for BYOD
- FAQ webpage for staff
- Work order system with online form
- Real-time network monitoring system

#### **Applications**

- Latest version of Solidworks (CAD)
- Latest version of Adobe Creative Cloud (Art)
- Google Apps for Education
- Apple apps for iPads



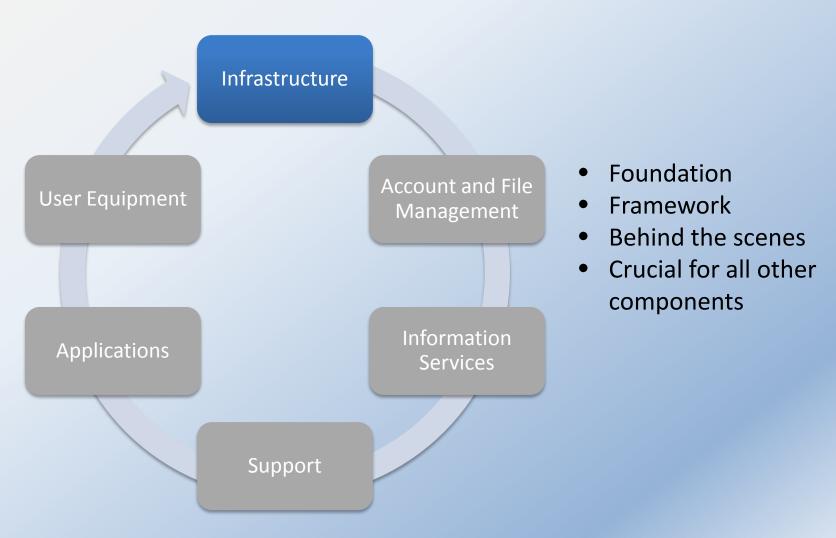
#### New Classroom Equipment

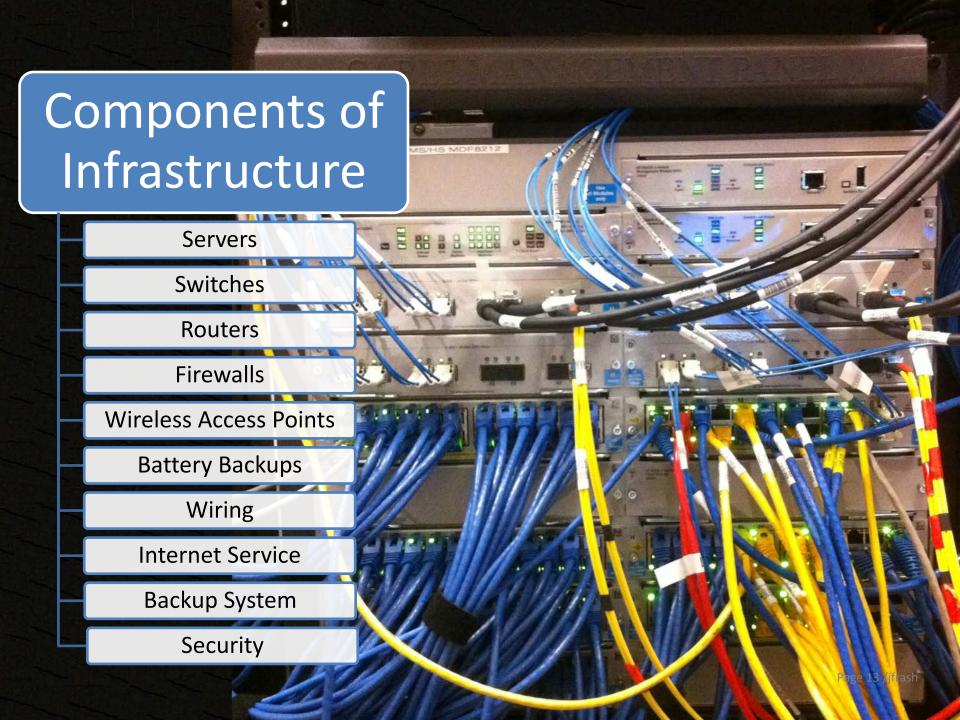
- 160 of 185 thin clients in classrooms and libraries
- 25 high performance CAD lab computers
- 8 high performance iMacs in art rooms
- 64 of 65 interactive or ceiling projectors
- 350 chromebooks in 15 charging carts
- 26 iPads with syncing station in music lab
- 200 laptops in 8 charging carts
- 53 of 76 teacher laptops
- 55 Google Nexus Tablets ready to distribute



# Project Details

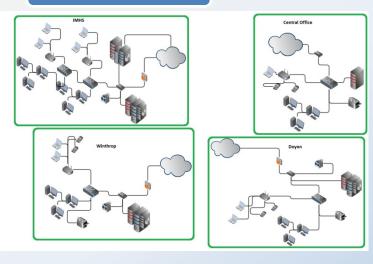
- Description
- Current & Future State
- Realized Benefits



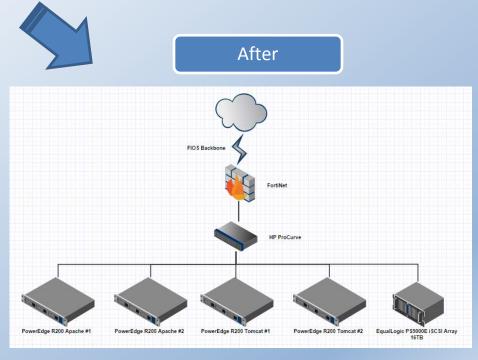


#### Improvements in Infrastructure

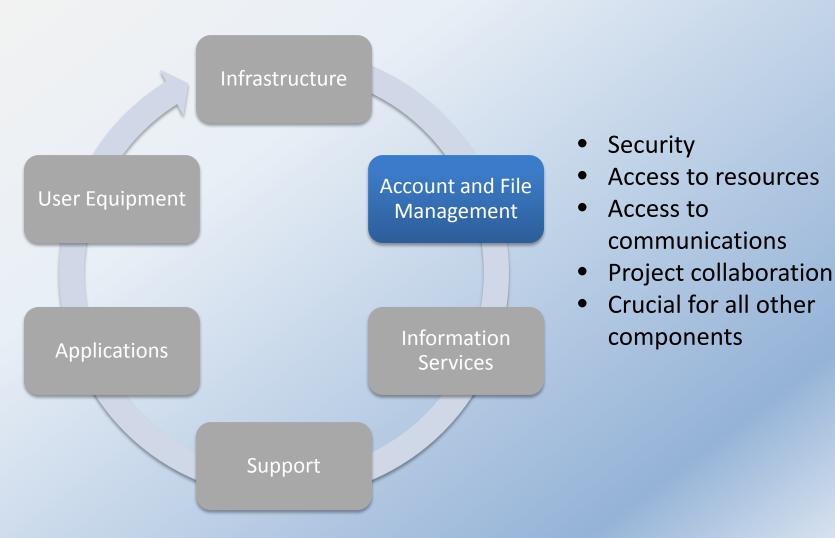
#### Before

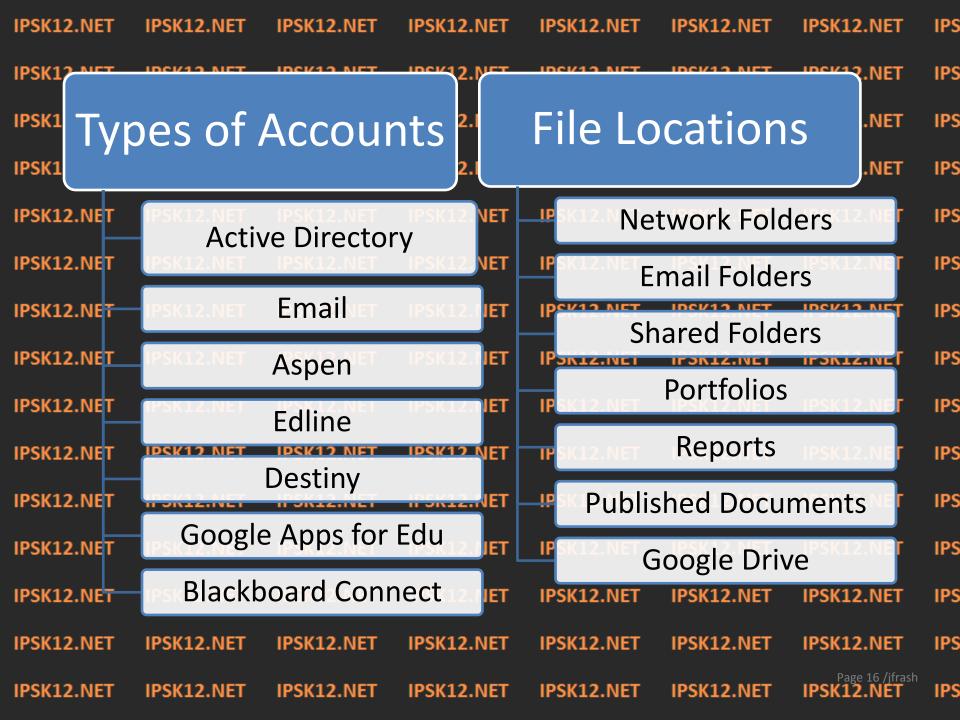


- Centralized all schools into one fiber connected network
- Upgraded all network hardware to a more robust version
- Secured and extended the wireless system



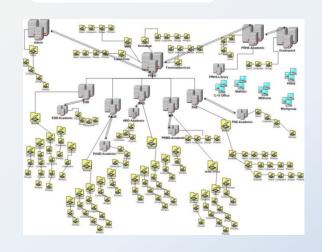
Improved reliability, security and performance





# Improvements in Account and File Management

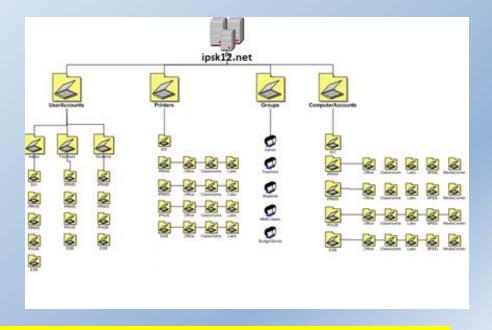
#### Before



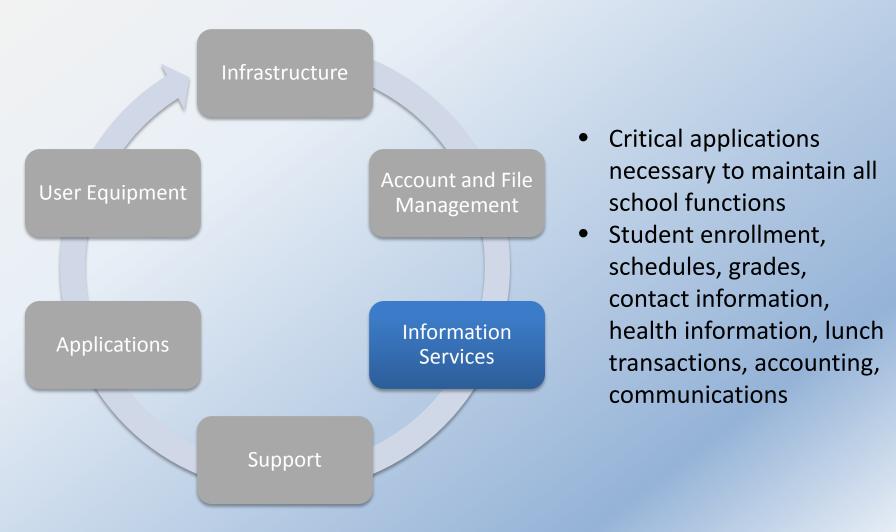


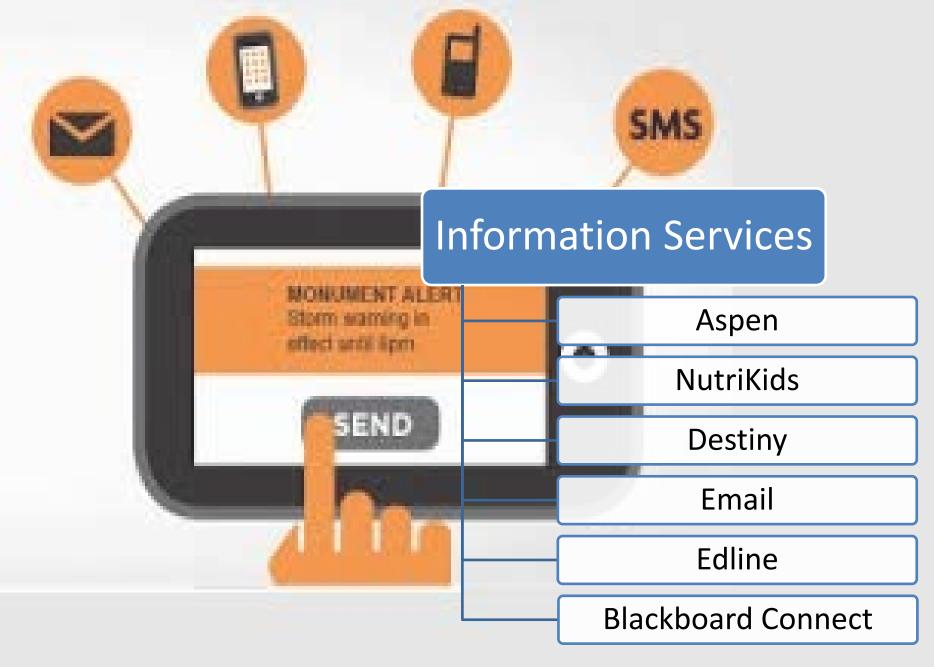
- Consolidated domain structure
- Automated account creation
- Integrated with applications
- Setup file and video sharing



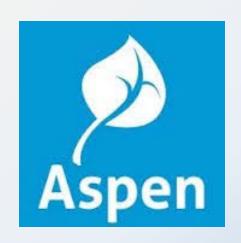


Simplified login procedure and file access



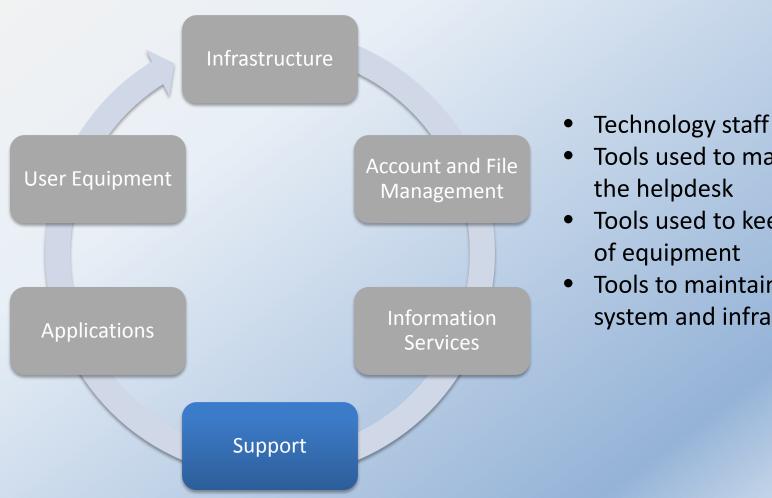


#### Improvements in Information Services





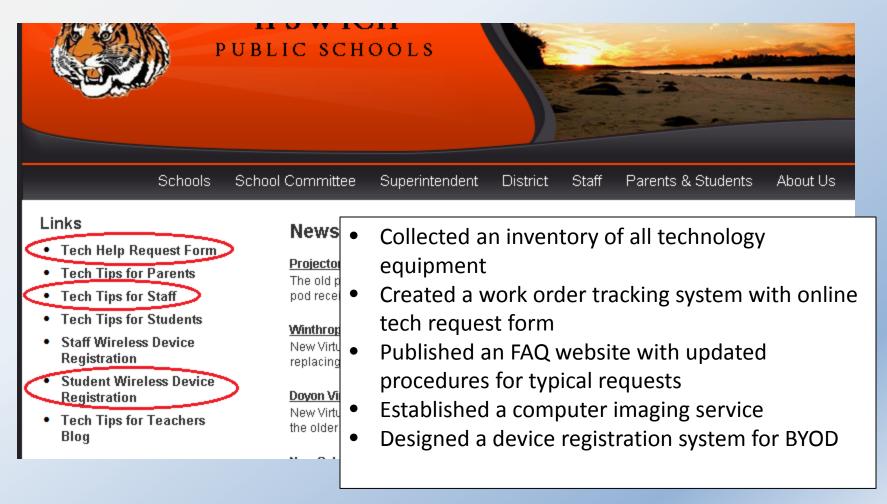
- Converted the student information system
- Centralized food service POS
- Consolidated library system
- Integrated the Website
- Synchronized email accounts



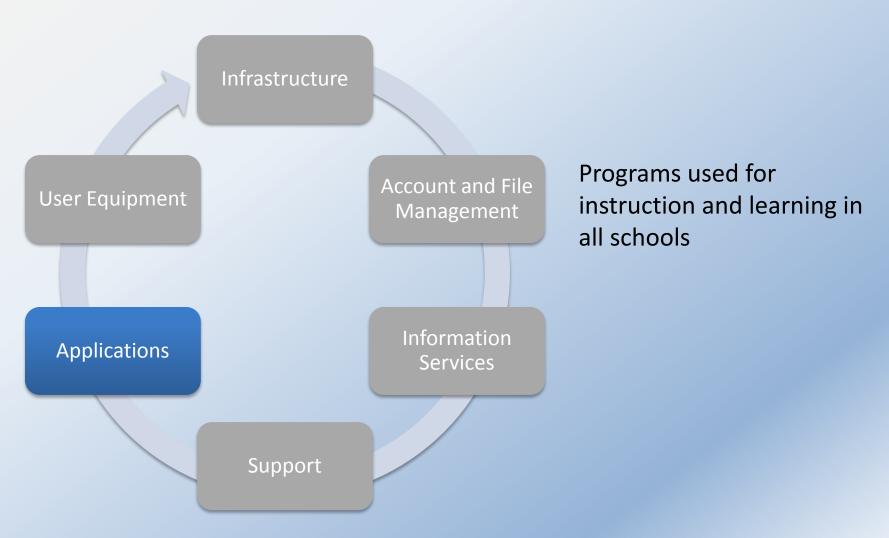
- Tools used to maintain
- Tools used to keep track
- Tools to maintain the system and infrastructure



#### Improvements in Support



Technology support is more responsive and accessible



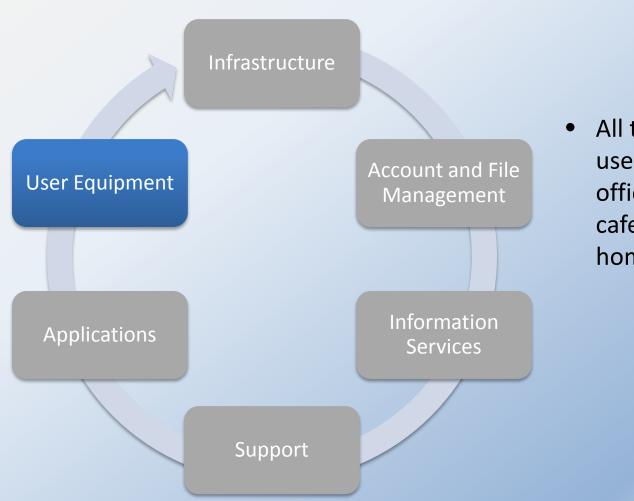


#### Improvements in Desktop Applications

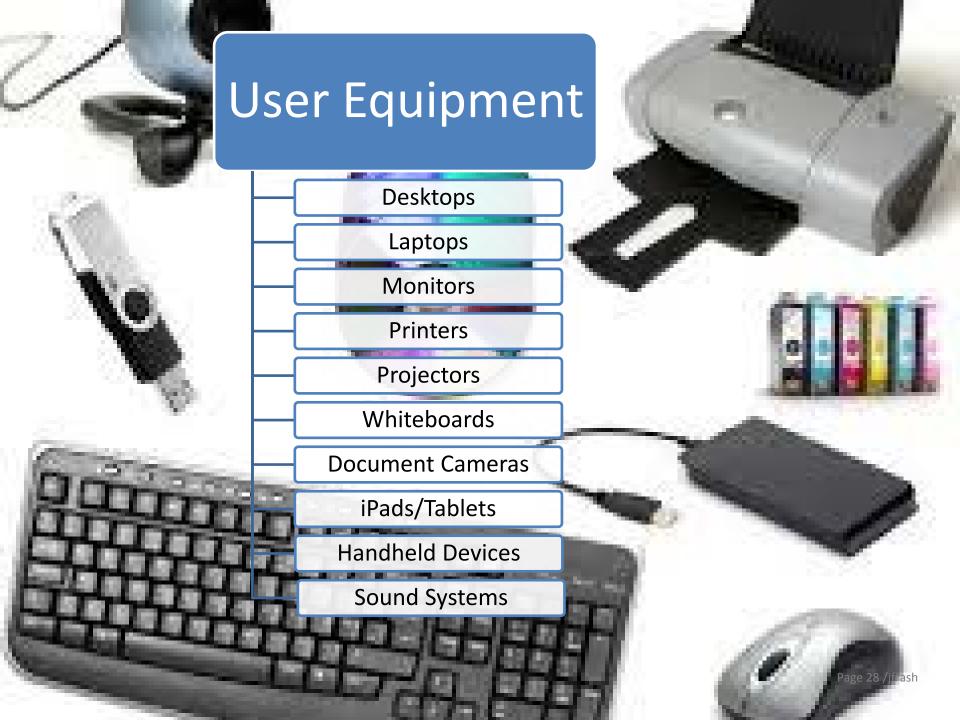


- Site licenses for Adobe Creative Cloud
- Latest version of SolidWorks CAD program
- Google Apps for Education
- Apple Volume Purchasing program for the district





 All types of equipment used in classrooms, labs, offices, common areas, cafeterias, and even at home



#### Improvements in User Equipment



- Converted Library labs to virtual desktop labs
- Upgraded CAD lab and Music Lab
- Created a new Art Lab
- Built new mobile laptop and chromebook carts
- Installed classroom interactive projectors
- Tablets for younger students

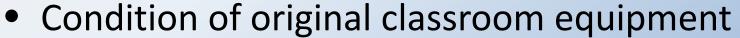


# Upgrade Status

- Challenges
- Phase 1 Infrastructure
- Phase 2 Classroom Equipment

## Implementation Challenges

- Sheer number of critical upgrades needed simultaneously
- Inconsistencies within the district



- Conducting the SIS conversion to Aspen
- Diverse demands from mini grants (161 devices)
- Supporting a school district in session (ie: addressing over 1500 work orders in the past 2 months)



# **Assembly of Equipment**





# Technology in Use

