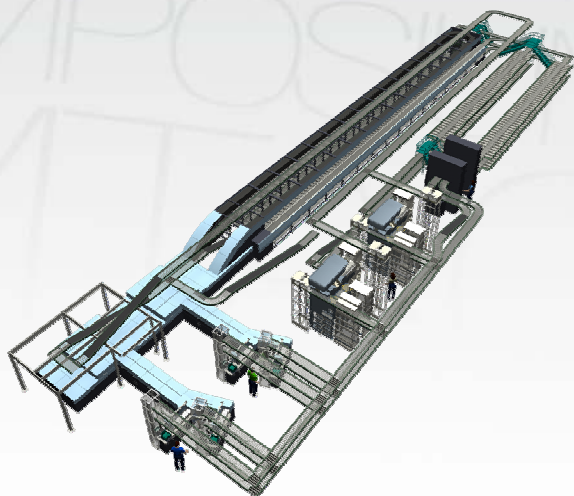


MTAC USPS Flats Symposium

MAY 17, 2007 8 am to 4:30 pm, WASHINGTON D.C.
L'Enfant Plaza Hotel, 480 L'Enfant Plaza, SW, Washington DC 20024



**MAILERS TECHNICAL
ADVISORY COMMITTEE**

UNITED STATES POSTAL SERVICE®

FLATS SEQUENCING SYSTEM (FSS) OVERVIEW

Barbara Trower
Manager, Flat Mail Technology

Rosa Fulton
Executive Director, FSS

May 17, 2007

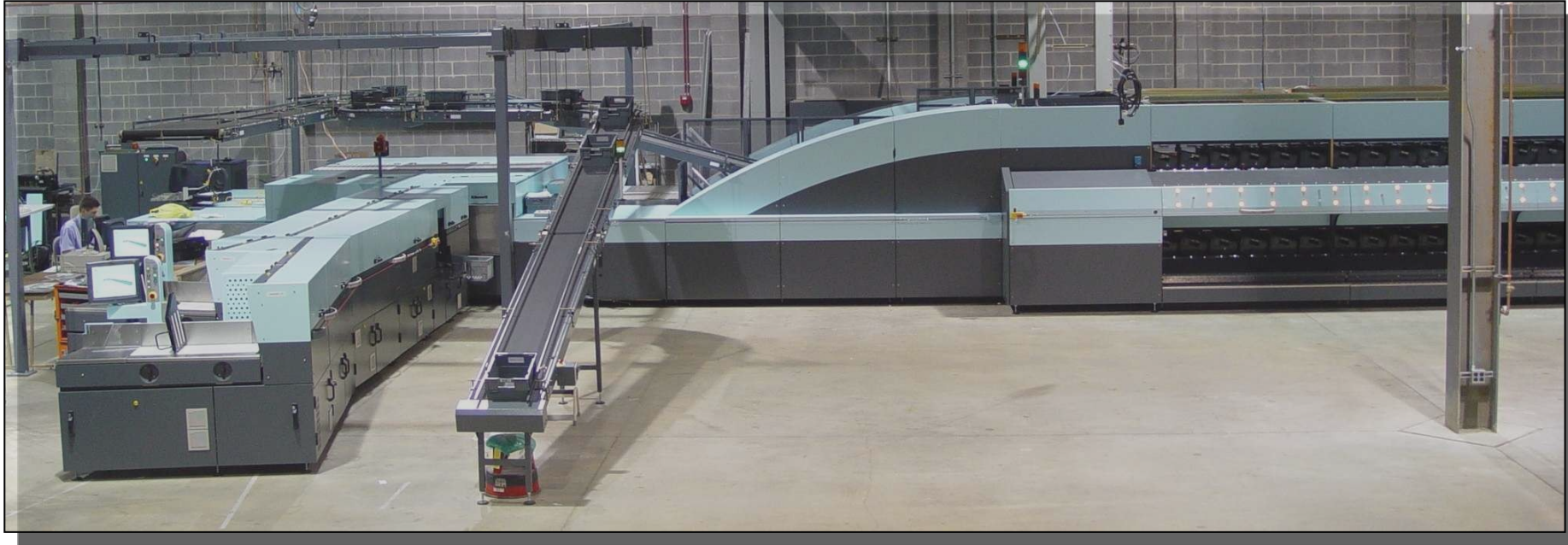
AGENDA

- ❖ **Program Timeline**
- ❖ **Prototype FSS Test**
- ❖ **Pre-Production – Dulles VA**
- ❖ **Production System / Deployment**

MULTI-PHASE DEVELOPMENT / DEPLOYMENT

- ❖ Prototype – Indianapolis IN Apr 2006
- ❖ BOG Approval 100 Production FSS Machines Dec 2006
- ❖ Pre-production Install – Dulles P & DC Jun 2007
- ❖ Pre-production – Live Operations Oct 2007
- ❖ Production First Article Jul 2008
- ❖ Phase 1 Deployment Begin Oct 2008
- ❖ Phase 1 Deployment End Oct 2010

FSS PROTOTYPE MACHINE



Test System - 192 bins and 2 feeders

Mail prep work stations
ai equipped flat feeders
OCR / VCS / ICS
2nd pass feeder assist

21,600 Pieces per hour
16,200 Delivery points
Carrier Routes – 20 - 25
Flat volume 30,000

INDIANAPOLIS PROTOTYPE TEST



Carmel Indiana Delivery Unit

Processed mail
for
Zone: 46032

City Carriers – 24
Rural Carriers - 16

Test performed from April 17th
to June 10th 2006

❖ FSS Machine Location

- ✦ **Mail Processing Annex (MPA)**
- ✦ **Indianapolis, IN**

❖ FSS Delivery Unit

- ✦ **Carmel IN**
- ✦ **Zip Code – 46032, 46033, & 46082**
- ✦ **City Carriers – 35**
- ✦ **Rural Carriers - 31**

FSS PROTOTYPE TEST PLAN

Four Major Areas Tested

- 1. Machine Performance**
- 2. Function 1 Operational Impacts**
- 3. Function 2 (City & Rural) Impacts & Concepts**
 - In-office
 - Street
- 4. Function 4 Impacts**

PROTOTYPE MACHINE PERFORMANCE

Attribute	Test Goal	Actual
Sort Accuracy	98%	98.8%
Accept Rate	93%	92.2%
1 st Pass Throughput	17,500 pph	16,000 – 17,000 pph
2 nd Pass Throughput	17,500 pph	16,000 – 18,000 pph
Combined Throughput* * Starts with first letter on first pass until first letter on first pass of subsequent run	8,250 pph	7,700 – 8,000 pph

- ❖ Impacts to Acceptance Rates
 - ◆ Address Hygiene
 - ◆ 11-Digit Barcode
 - ◆ Polywrap Standard

FSS RESULTS - CARMEL DELIVERY UNIT



Non-DPS Flat Route

FSS RESULTS - CARMEL DELIVERY UNIT



DPS Flat Route

FSS RESULTS - CARMEL DELIVERY UNIT



DPS Flat Route

FSS RESULTS - CARMEL DELIVERY UNIT



DPS Flat Route

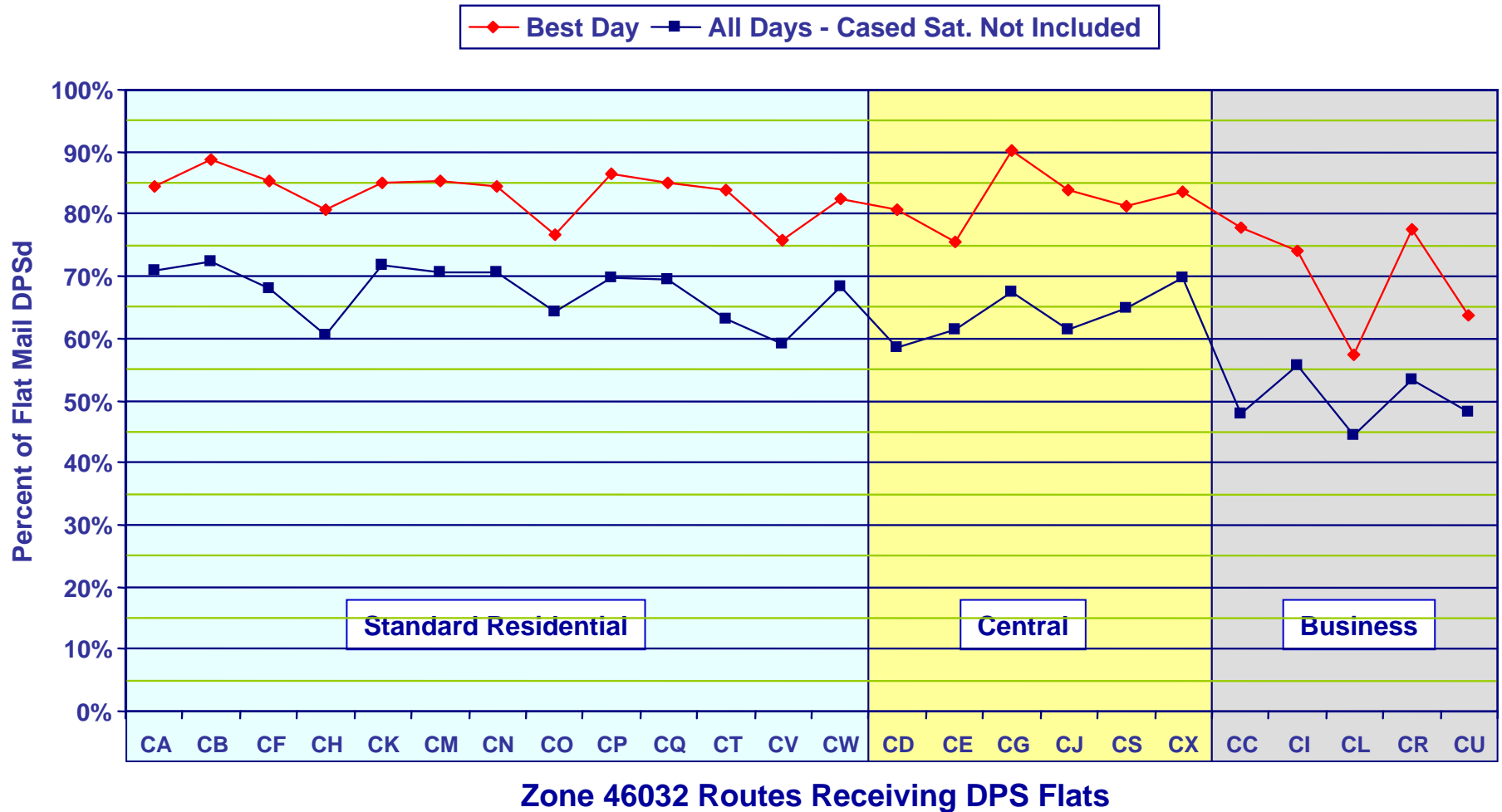
DPS FLATS DIRECTLY TO THE STREET



Takin' it to the Street



OVERALL % FLATS SORTED to DPS



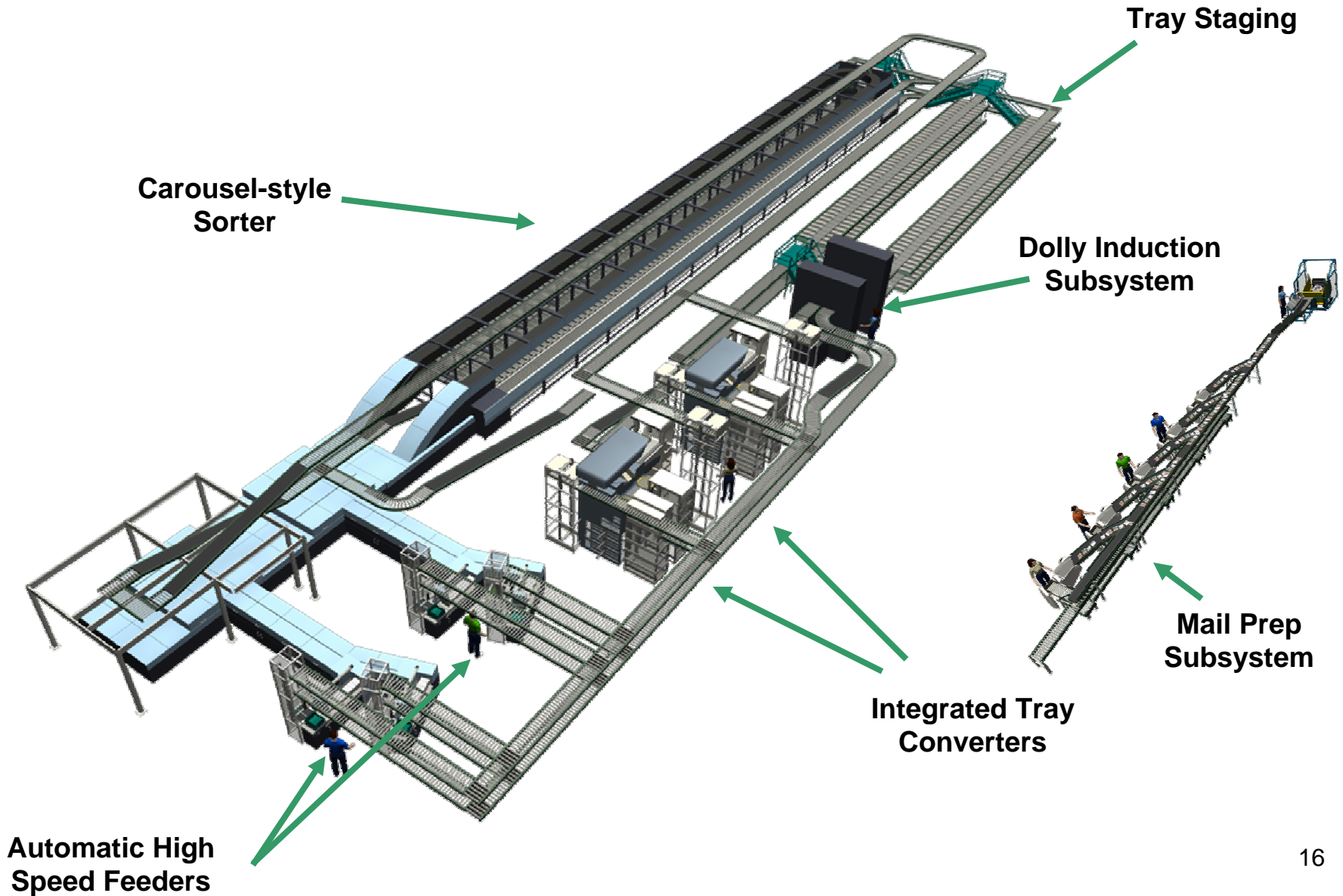
FSS PRE-PRODUCTION – DULLES VA

Dulles VA – 201, 226 & 227



- ❖ Install: June 2007
- ❖ Field Acceptance Test: Sep 2007
- ❖ Live Operations: Sep/ Oct 2007

FSS PRODUCTION MACHINE



FSS PRODUCTION MACHINE



Tray Transfer



Prep

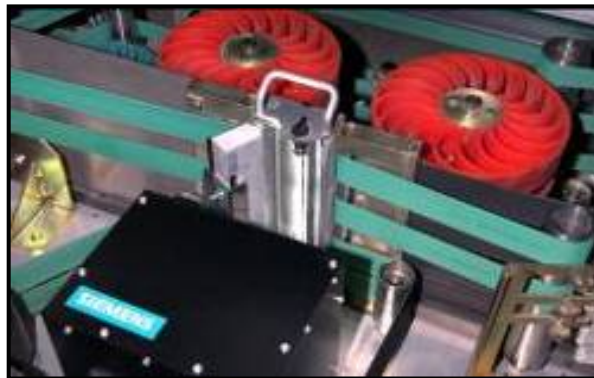
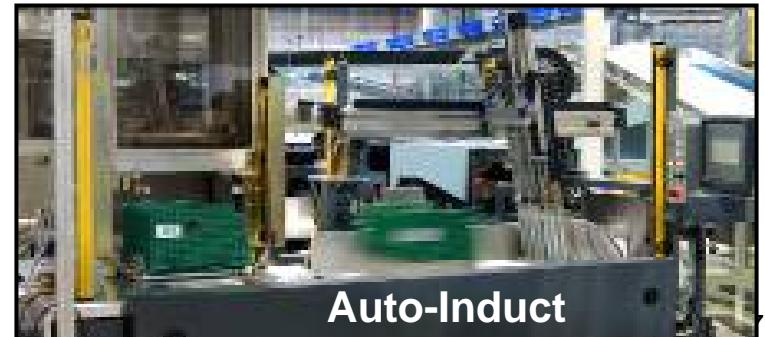


Image Processing



Street
Trays

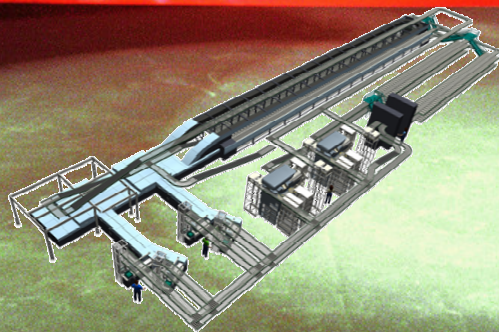


Auto-Induct

PRODUCTION FSS

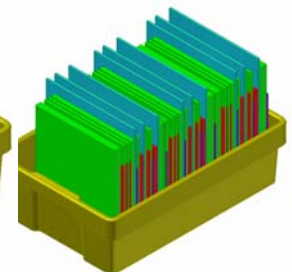
Attribute	Production FSS
Outputs (Bins)	360
Inductions / Feeders	2 / 4
Feeder Throughput (4 Feeders - Maximum Theoretical)	43,200 pcs/hr
Approximate Delivery Points Sequenced / 2 Pass Run	30,000
Typical Carrier Routes / 2 Pass Run	40 - 50
Average Day Run – Time Actual Run Time Varies by Season	17 hours
Typical Number of Daily Runs	6 - 8

Let's Take a Look



FSS NEW EQUIPMENT – FLAT TRAYS

Tray Type	Contents	Where used
Automation Compatible Tray (ACT) 16"x16.25"x10.4"	<ul style="list-style-type: none"> Mail to be sequenced 12" mail 	<ul style="list-style-type: none"> Mail preparation Automated Induction (ai) ITC output
Rigid Tray 19" x 13.75"x 12"	<ul style="list-style-type: none"> 1st pass & 2nd pass in process mail Sequenced mail 9" mail 	<ul style="list-style-type: none"> Sorter outputs In process tray staging ITC Input
Street Tray 17.83"x12.125"x6"	<ul style="list-style-type: none"> Verticalized mail for carrier 15" mail 	<ul style="list-style-type: none"> ITC output dispatch Dispatch Mail Carrier



FSS NEW EQUIPMENT – STREET TRAYS



Prototype Trays – Under Development

FSS NEW EQUIPMENT – STREET TRAYS



Prototype Trays – Under Development

NEW EQUIPMENT – TRANSPORT



Carrier Automation Street Tray Rack (CASTR)

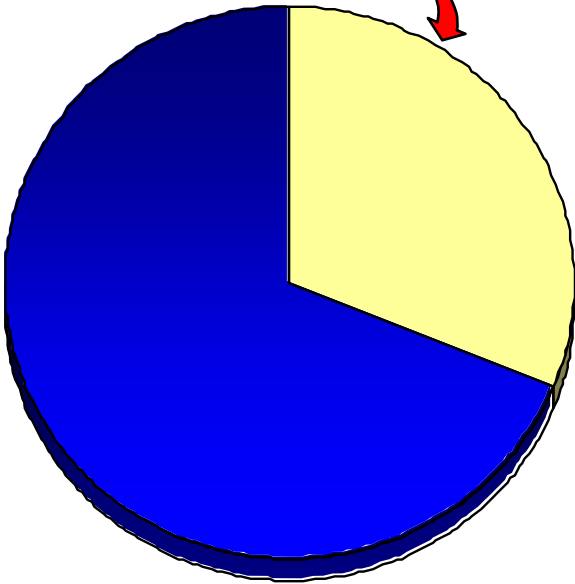
Prototype – Under Development

PHASE 1 DEPLOYMENT – 100 SYSTEMS

- ❖ 29 Districts
- ❖ 32 Processing Facilities (FSS Locations)
 - 27 Existing Processing Centers
 - 5 New Facilities
- ❖ 2 - 5 Systems per Facility
- ❖ 1,500 Zones

PHASE 1 FSS VOLUME / ZONES

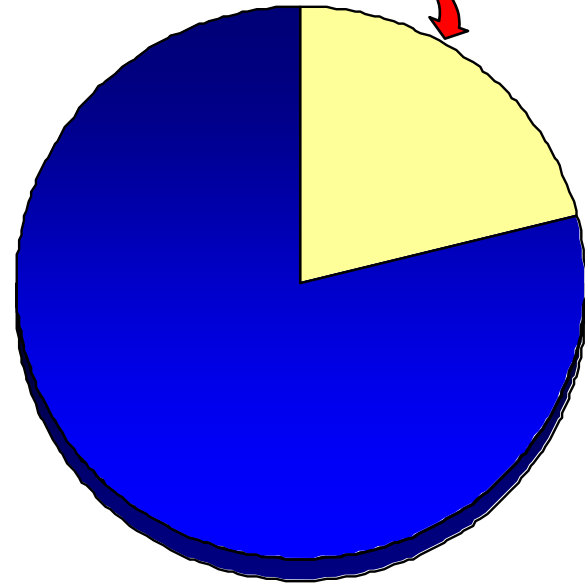
Phase 1 FSS Volume – 28 million
28%



Full-up FSS Volume
100 million

Average Daily Volume

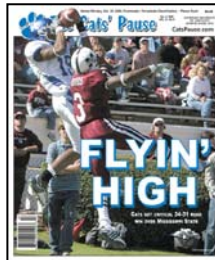
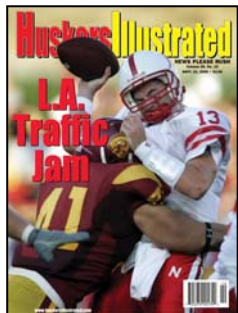
Phase 1 FSS Zones – 1,500
21%



Full-up FSS Candidate Zones
7,000

FSS PROCESSING STRATEGY

- ❖ 17 Hour Run Day (Operating Window)
- ❖ 280,500 Sequenced Pieces Per Day Per Machine
- ❖ 1st and 2nd Pass are Run Consecutively
- ❖ Each Zone Will be Run Once a Day
- ❖ One Dispatch Per Day Per Zone (other than FCM)
- ❖ FCM May Not be in DPS based on FSS Operating Window and Mail Availability



Thank You!

