

PORT OF MIAMI

TRANSFORMING VIDEO

***A JOURNEY TO THE
FUTURE***

**July 16 - 18, 2014
Baltimore, MD**

NICE[®]

PORT MIAMI



Port Miami has a total economic impact of more than **\$27 billion** a year and generates approximately **207,000 jobs**. Second largest economic engine in Miami-Dade County.

"Cruise Capital of the World"- 4.7 m cruise passengers

Challenges

- Port Miami has 7 Cruise Terminal's spread across a large portion of the port , Site Cameras and waterside surveillance cameras
- Cruise terminals are active and time sensitive
- Required to keep old system up and running in parallel with new system for 30 days testing
- Over 450 cameras at the port had to be active in the new system without “touching” each camera
- Integration with legacy Access Control System

Modernize and Improve not Remove

- Leverage existing cameras, conduit and cabling infrastructure and architecture / VPO-CT
- Seamless IP conversion of existing PTZ cameras without the need to change camera configurations
- Seamless transition to Central Dispatch & Monitoring
- Redundancy by utilizing redundant NVR's
- Redundant Head-End Application solution
- Resilient Storage by utilizing RAID 5 Array
- Mega Pixel cameras support
- Integration with Legacy Access Control Systems

Transition Process

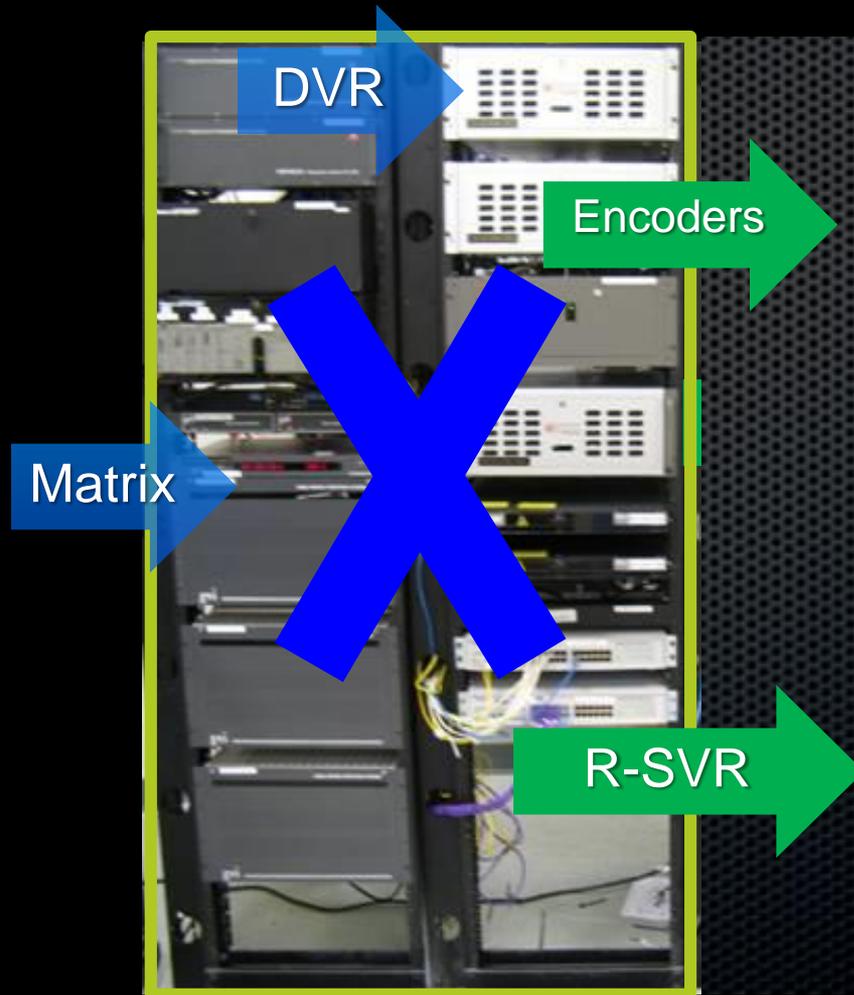
Video matrix switches / DVRs / Encoders / NVRx (migration)

- 571 active cameras
- Analog based DVR recording solution with matrix switch technologies to manage the cameras and video management functionality.



Transition Process

Video matrix switches / DVRs / Encoders / NVRx
(migration)



SOLUTION HIGHLIGHTS

“YARD BY YARD ITS HARD,



INCH BY INCH IT'S A CINCH”



Event Management and VMX

- **Map driven navigation** for easily locating any camera
- **Configurable views upon event** for better situational awareness and suspects tracking
- **Immediate Scenario Reconstruction**, achieved by tight integration with Analytics
- **Reduce the time for making the correct decision** by integrating real-time and recorded video on any monitor
- **Procedure automation** with scheduled views using macros
- **Instant access to remote video sources** in other sites



Alarming Systems- Access Control

- Integrated Access Control, Alarm Monitoring and Visitor Management Systems deliver maximum protection, versatility, simple operation and cost efficiency.
- An advanced access control system gives you the power to monitor every entry.
- Notifications of entry may also be sent to your mobile phone for further safety assurance.

Personal Details Form

Exit Image Preview History Cards New Note Vehicle Passes Print Dock Print Card Dossier Parking Certific Take Edit

Last Name: TESTPARKS Middle: Parking Privilege: Yes Certifications: No
First Name: TEST Personal ID: 78230 DRL No: F777777777 FL Company: MIAMI DADE COUNTY EMPLOYEE
SSNo: 020-30-6050 D.O.B.: 12/14/1965 Department: ACCOUNTING
Race: W Weight: 125 Height: 105 Sex: F Title: DETECTIVE
Hair Color: BLONDE Eye Color: BROWN Personal status: Access Level
Address: TEST TEST BadgeType: pewa Admin Bldg
Line 2:
City/ST/Zip: MIAMI FL 33185
Home: (305) 227-4343 Work: Cell:
ADJUDICATION APPROVED on 8/20/2008 !!! Next Fingerprint Check Recommended: STATE.

Tag No	Effective From	Effective To
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DATE	NOTE
------	------

Record: 1/4

Last Fingerprint Information State National
Fingerprint Re-Sent Name Search
TCN: TEST000000007
Sent On: 8/20/2008
Received On: 8/20/2008
Rejected: TCR:

Current card information
Card No.: T000074
Pm Serial No: 218002
Issue Date: 10/22/2008
Exp. Date: 8/20/2009
Bdg status: ACTIVE
Bdg Type: pewa



Alarming Systems - Video Analytics

Fixed camera - Intrusion Detection



PTZ camera - Automatic PTZ Tracking



Alarming Systems

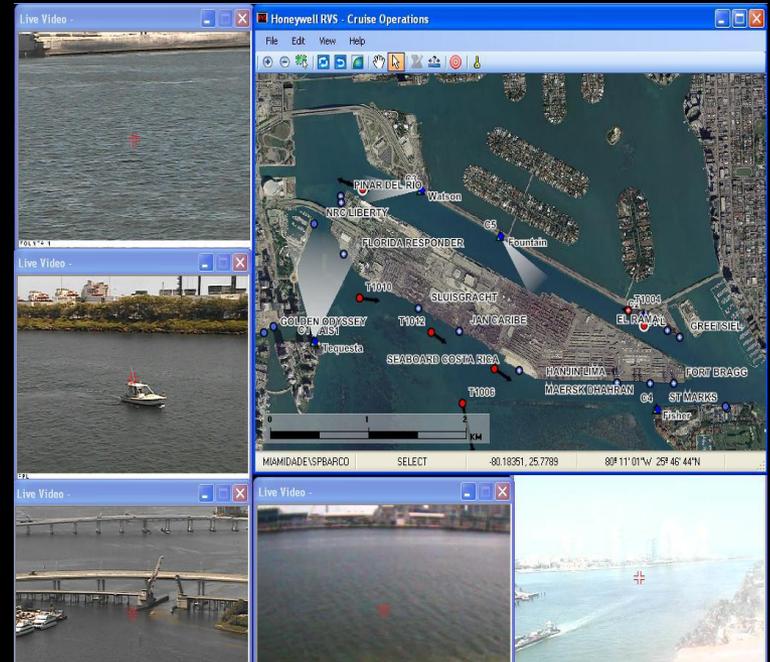
Automatic License Plate Reader (ALPR)

- Arms law enforcement with real-time knowledge and post-action criminal intelligence
- License plate recognition systems take a clear image, and translate its characters
- Make a substantial impact in crime prevention since 70% of all crime is connected to a vehicle.



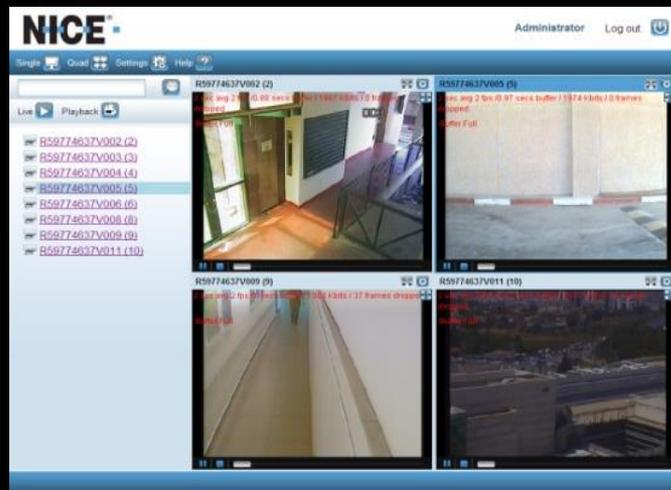
Alarming Systems-Waterside Radar/AIS Surveillance

- Radar detects moving or stationary targets.
- AIS use radar sensors to detect intruders in user defined alarm zones.
- Video is recorded and distributed over a Local Area Network to provide recorded history and real-time situational awareness.
- When an alarm is triggered, personnel can identify the threat and make security decisions before the threat reaches the perimeter.



Web/Smartphone Application

- Web enables the Control and Player applications to be delivered as web application
- The applications are distributed and maintained by a web server
- Users are able to install the applications and receive updates automatically from the server
- Allows for a quick and flexible ability to view and manage video from anywhere on the network

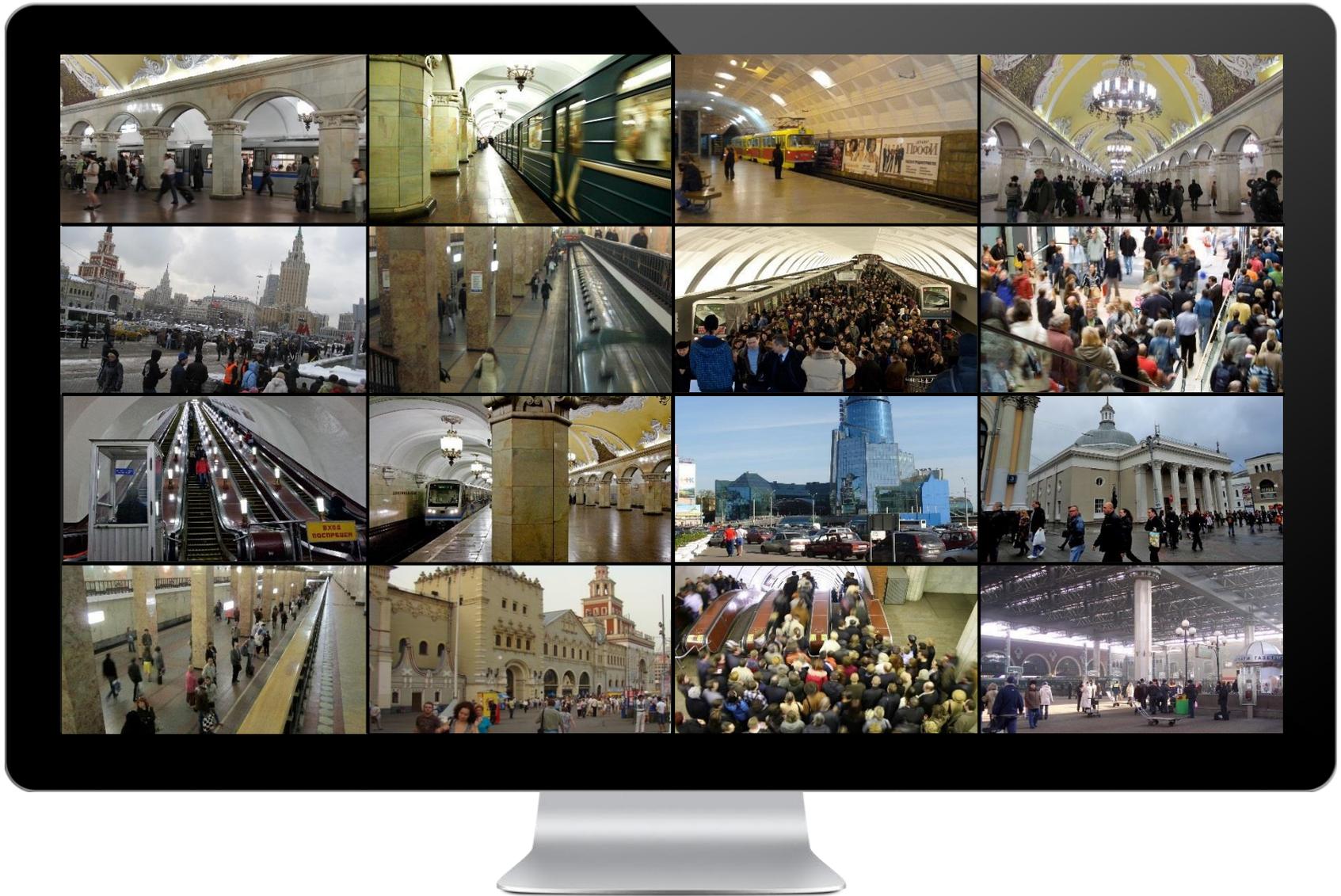


RESULTS

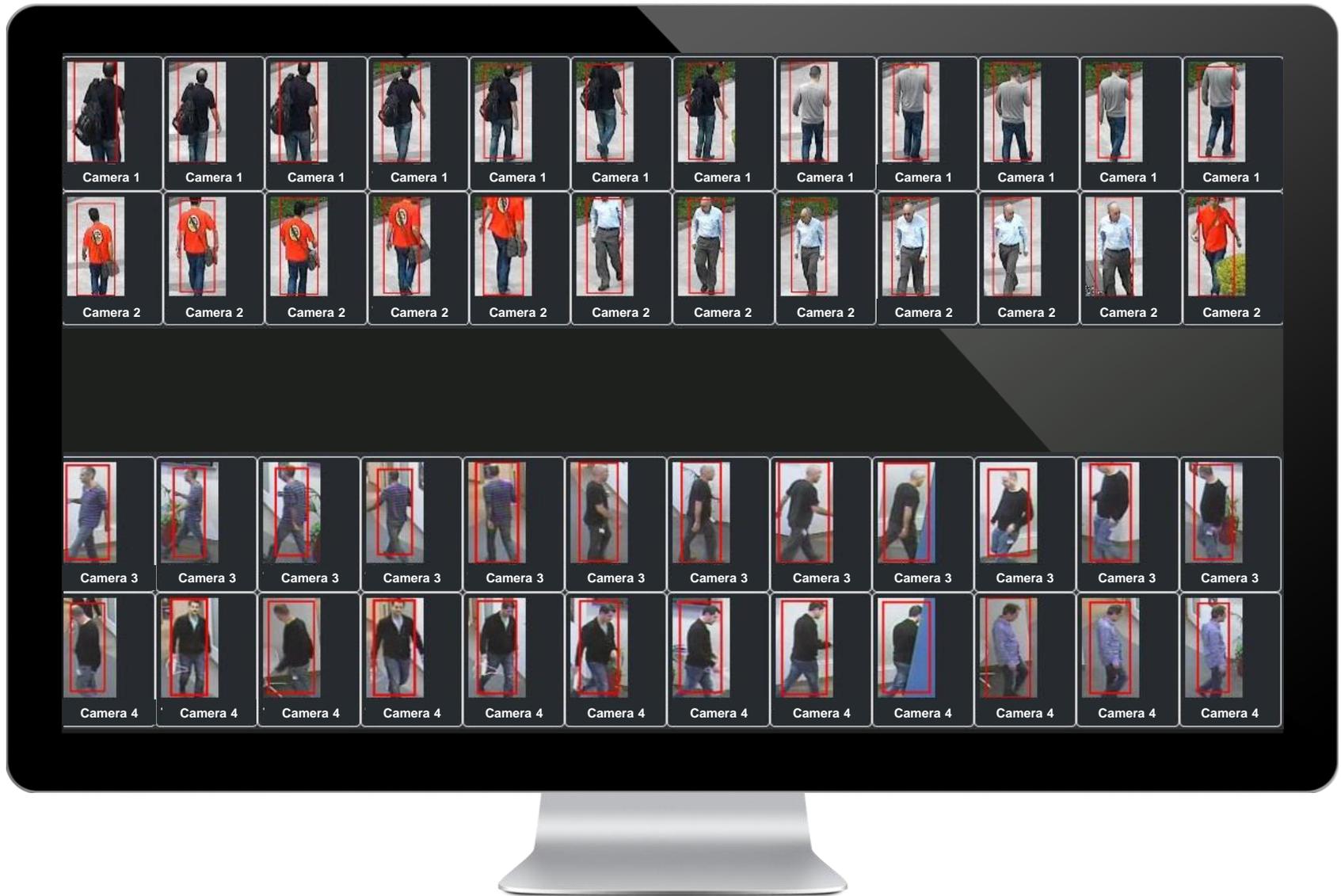
New Capabilities and Future Proofing

- Port officials are able to remotely and centrally monitor and manage hundreds of pre-existing analog cameras
- They can install and record the newest HI-definition IP video surveillance cameras
- Receive real time and recorded video to their mobile devices through a mobile solution.
- Accomplish software updates and upgrades without touching cameras and clients
- Have extended the life of existing infrastructure and enabled it to handle advanced new video surveillance technologies

From Hours of Video...



To an Album of Images



Saving You Precious Time



Live search

The screenshot displays a 'Suspect Search' interface. At the top, there is a grid of small video thumbnails and a row of four larger thumbnails labeled 'Cam A60', 'Cam A62', 'Cam A51', and 'Cam A91'. Below this is a search control panel on the left with a date range '03/05/2014 2:33:11 PM - 03/05/2014 2:53:11 PM', a search bar containing 'search on 3 channels', and buttons for 'Upload suspect picture...' and 'Create suspect avatar...'. A 'Search' button is located at the bottom of this panel. The main area shows three rows of video frames from 'Cam A61', 'Cam A56', and 'Cam A53', each with a 'found' count (1574, 5623, and 2642 respectively). Red bounding boxes highlight detected suspects in each frame. Three blue circles highlight specific frames: one in the Cam A61 row, one in the Cam A56 row, and one in the Cam A53 row. The interface also includes a 'Highlights' tab, a 'Delete All Tasks' button, and a Windows taskbar at the bottom showing the date '05/03/2014' and time '15:09'.

Query

☰ 03/09/2014 11:30:00 PM-11:35:00 PM
 ☰ Camera 2
 🔍
🗑️
⏪ 1/6 ⏩

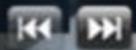
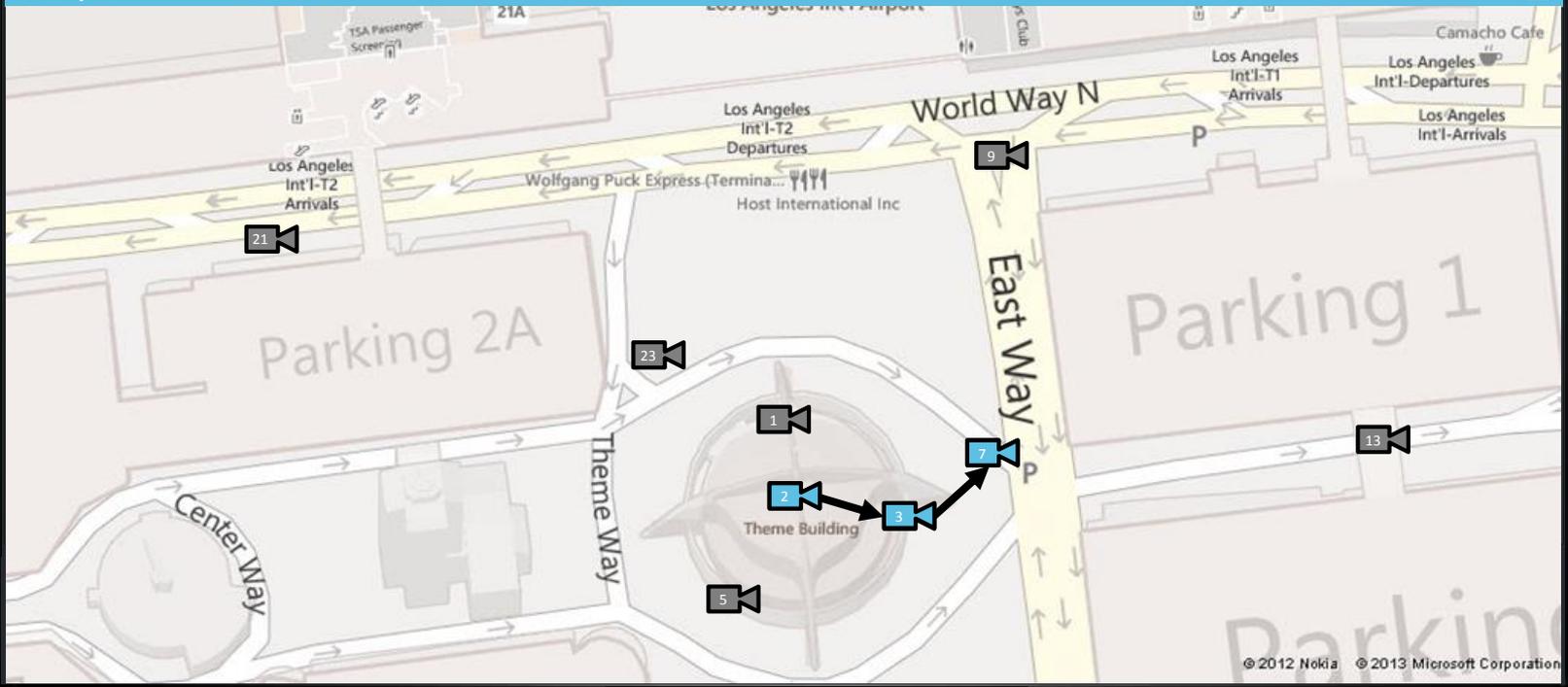
Albums

My Suspects
New Album

Album contains 2 suspects



Map



Live search – Building an Avatar

The screenshot displays the 'Create Suspect Avatar' window within the NICE software interface. The window is titled 'Create Suspect Avatar' and features a sidebar with categories: Body, Coat, Dress, Hair Style, Hat, Misc., **Pants & Skirts**, Shirt, and Shoes. The 'Pants & Skirts' panel is active, showing a grid of clothing options. The second option in the first row is highlighted in green. Below the grid, there is a 'Color' dropdown menu, a 'Texture' dropdown menu set to 'None', and a color picker tool. A 'Preview' window on the right shows a 3D avatar of a man wearing a black jacket and blue pants. The interface includes 'Clear' and 'Reset' buttons, and 'OK' and 'Cancel' buttons at the bottom right. A blue banner at the bottom of the screen contains the text 'Suspect Composite is created'.



Security, Safety and
Operations Management Solution,
implemented at
Port Miami

**THANK
YOU**

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