



PRESENTER

WARREN WILLIAMS



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Communication Forensics & Cybercrime Unit
High Tech Crime Fighters

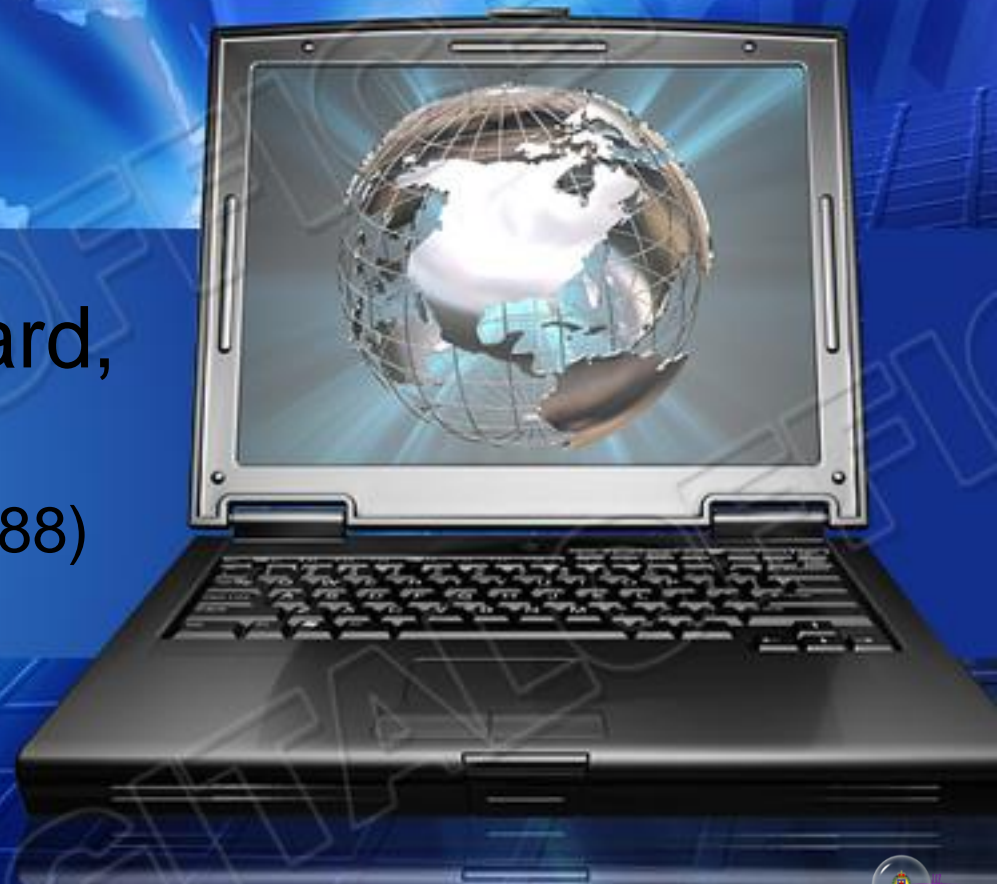


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AGENDA

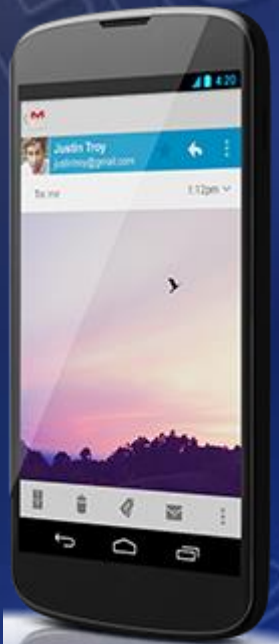
Digital Crimes

Digital Forensics

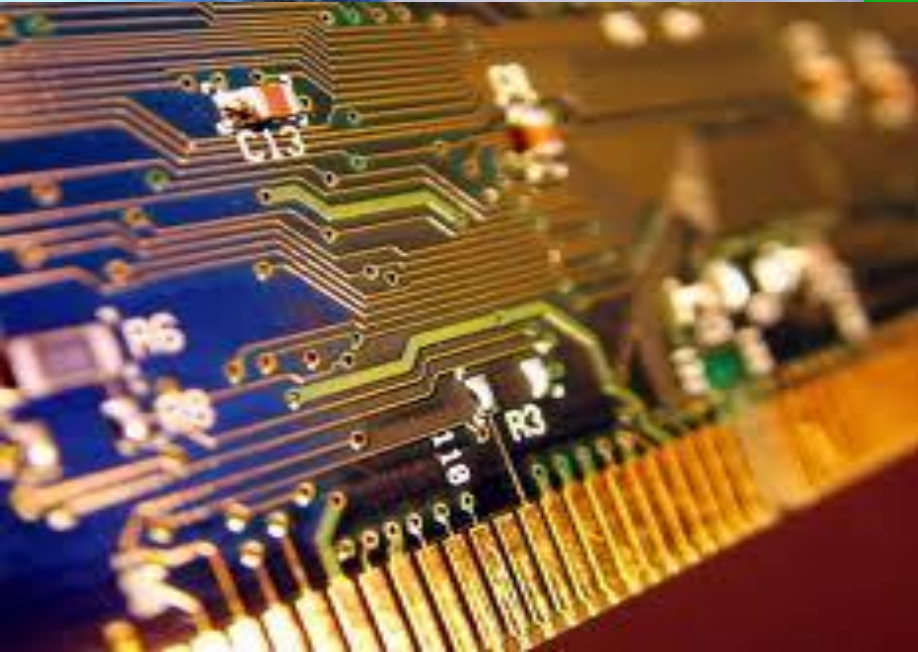
Tracking Perpetrators

Statistics

Q & A



Crime & Technology



In the Beginning.....

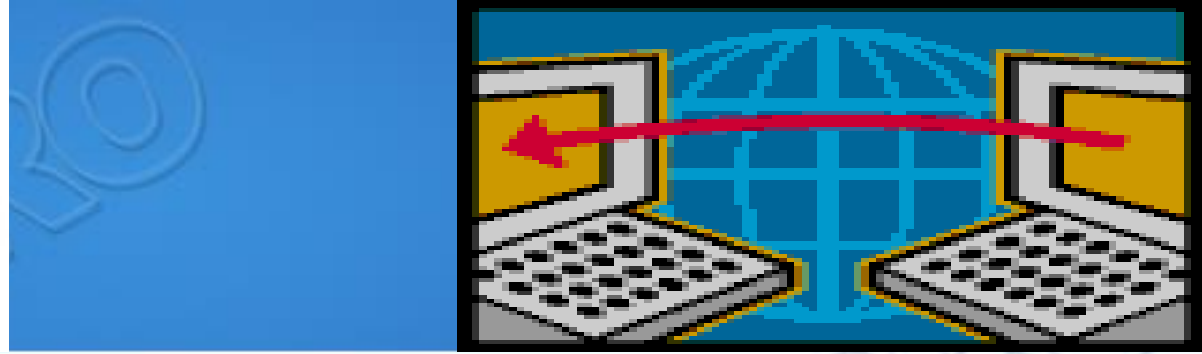
- **The telephone – 1876**
- **The Transistor - 1947**
- **The computer – 1950**
- **The Internet
(ARPANET)– 1960**
- **TCP/IP - 1974**
- **IPV4 - 1974**



Now and beyond.....

- Smart phone
- Tablet
- IP based technologies
- IPV6
- RFID





Digital crimes



IMPLEMENT OF DIGITAL CRIMES



Different forms of Digital crimes

- **Cyber crimes**
- **Computer related crimes**
- **Mobile related crimes**

Different forms of Cyber crimes

- **Cyber extortion**
- **Cyber Terrorism**
- **Cyber Stalking**
- **Cyber Harassment**
- **Cyber Bullying**
- **Cyber Espionage**
- **Cyber defamation**
- **Data trafficking**

COMPUTER CRIMES

USING

On a network



**STOLEN
IDENTITY**



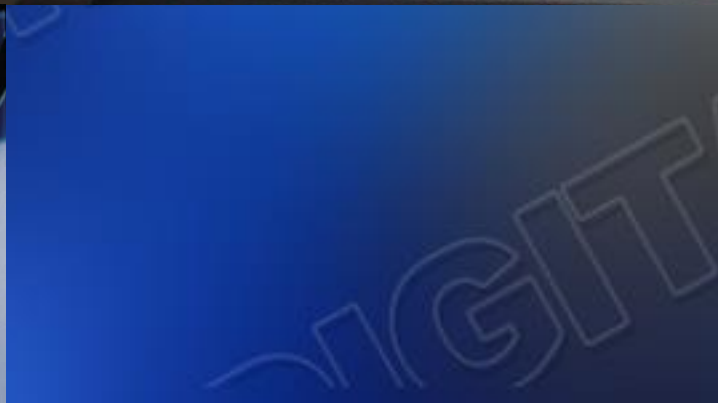
**ELECTRONIC
FRAUD**



**Programs &
tools**



Electronic Crimes





Implements of EF



ANYCARD!

File Edit Go To Tools Window Help

Main Screen: Current Credit Card Records

To do a simple credit card authorization, the following three blanks, below, are the only required fields:

Card Number <- Validate Exp Date Amount

The following is optional. If, however, you plan to do an address verification (AVS), you'll want to fill-in Address 1 & Zip Code blanks:

Name
 Address 1 View AVS Numbers
 Address 2
 City/State/Zip
 Country

Phone Email
 Your Invoice # or Reference
 Other Info

NOTES Use this space for comments or any other information that you would like to include about this credit card transaction:

Start Authorization Process

⏪ ⏩ ⏴ ⏵

Once you obtain the authorization information from the processing center, enter the appropriate codes below:

Authorization / Reference: /

Address Verification (AVS):

Date: #:

Easy Card Creator - [Child]

File Edit Drawing Format Tools View Help

ID	First Name	Last Name	Barcode	Job Position
1	John	Brown	12232244	
2	Sam	Rodden	324234234	Doctor
3	Alex	Revera	23423423423	
4	Gen	Cameron	34345345345	

Appearance:
 CanvasBack/Color 0, 0, 0
 CanvasBackground/Image (None)
 Grid False
 SelectedCardSide Front

Layout:
 CanvasHeight 7.62
 CanvasWidth 7.62

Misc:
 ArcAngle 20

Appearance

Old Saybrook Community Policing

Child ID Card

NAME MEG ANNE SAMPLEKID

HEIGHT 3'08" WEIGHT 45 lbs
 HAIR BROWN EYES BROWN

DATE OF BIRTH 02-04-1998 PICTURE TAKEN 08-12-2003

Sponsored by
 Laurence & Memorial Hospital

DIGITAL FORENSICS

**COMPTUER
FORENSICS**

**MOBILE
FORENSICS**

**COM.
FORENSICS**

**NETWORK
FORENSICS**

**ANY OTHER
DIGITAL DEVICE**

Digital Forensic Tools

- ENCASE
- FTK
IMAGER

- UFED
- XRY
- OXYGEN

- Wireshark
- Deep packet
Inspection (DPI)

Tracking Digital Criminals

Any criminal activity involving the use of a digital device to facilitate a crime either over the internet/ network or as a standalone.

Crimes such as:

- Unauthorized access to data
- Credit/Debit card fraud
- Illegal transfer of funds from one account to another
- Stealing, changing or erasing data

USING DIGITAL FORENSIC TOOLS



DIGITAL FOOTPRINTS



Artefacts



Uncovered
tracks



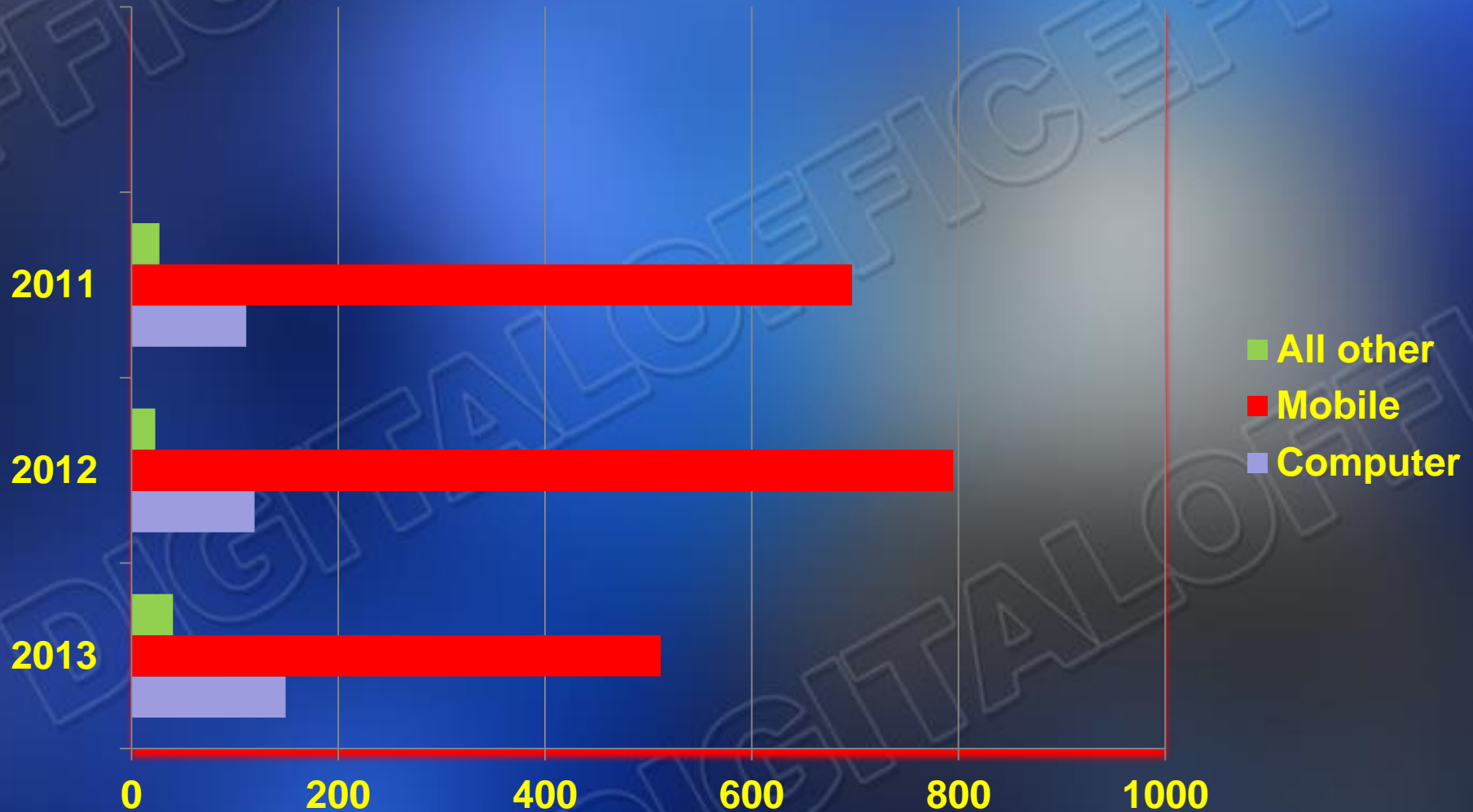
Leads



A crime is
normally
NEVER
perfect



Digital crimes - Statistics



What can the JCF offer??

- **Digital evidence and cybercrime investigative support.**
- **Training & Technical Assistance.**
- **Digital lab services**

Going Forward –Digital Solution

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Understanding
Digital
Forensics

Successful
Investigations

.....END OF PRESENTATION.....

THANK YOU

Q, A & S

