HORIZONT 3000

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Planning Investigations & Evidence Gathering Techniques

be transformed

Agenda

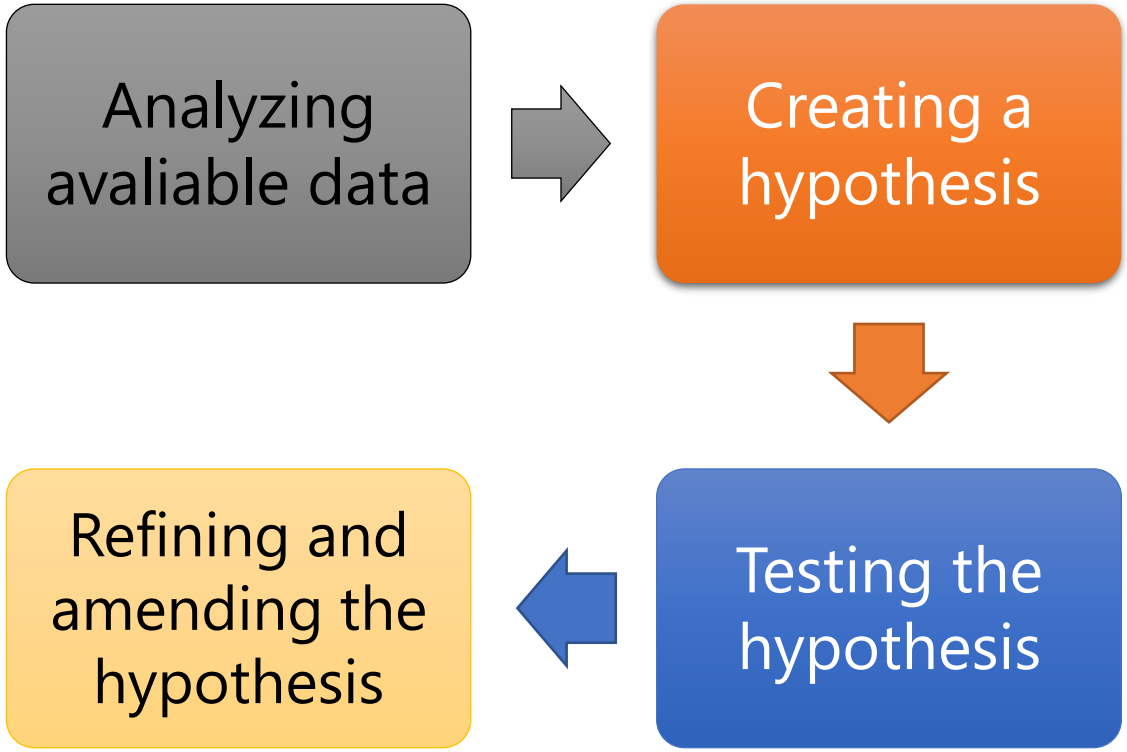
a) Forensic science
b) Evidence handling

Fraud Investigations

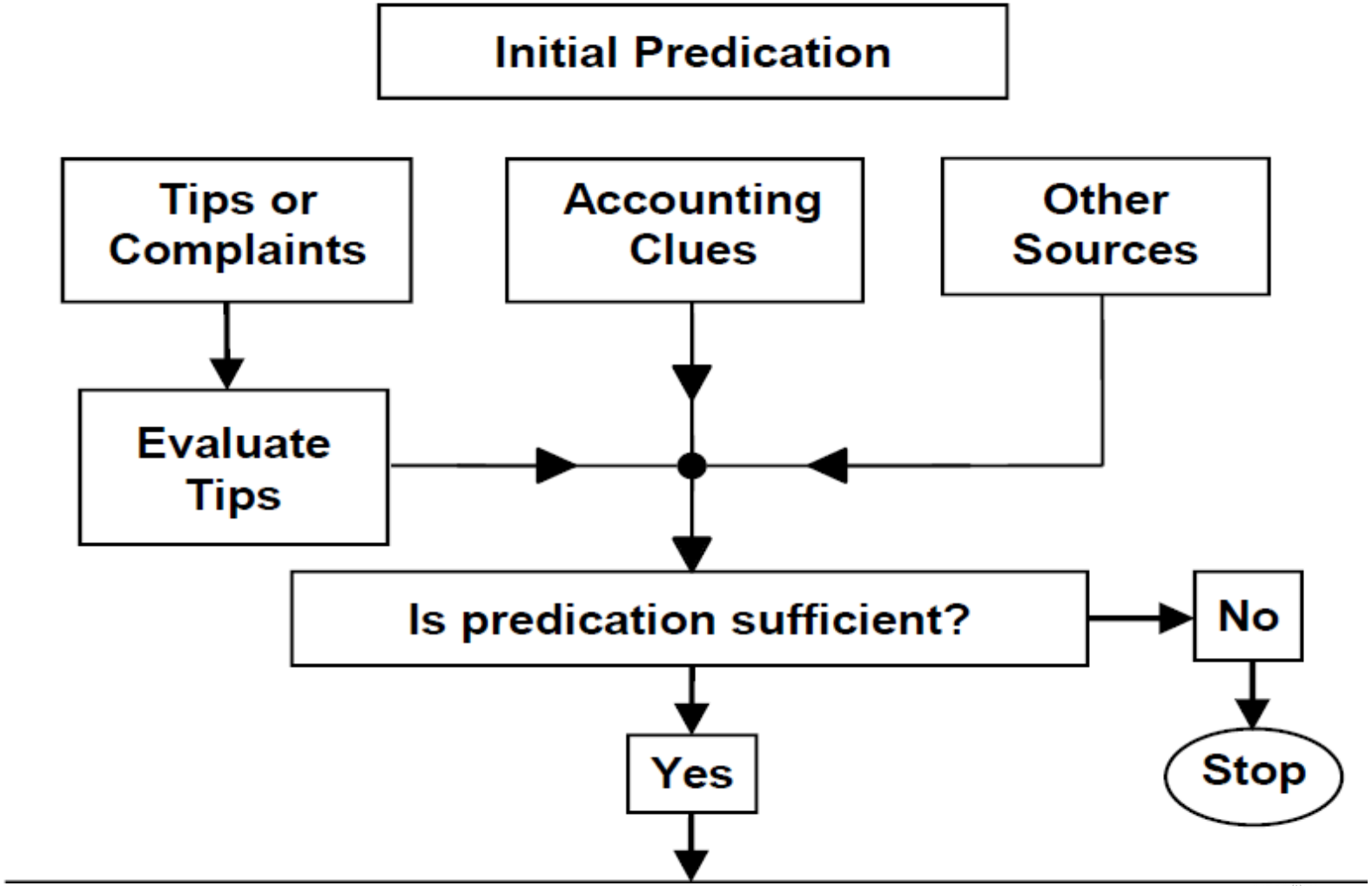
Refers to the process of resolving allegations of fraud from inception to disposition.

Fraud Examination theory

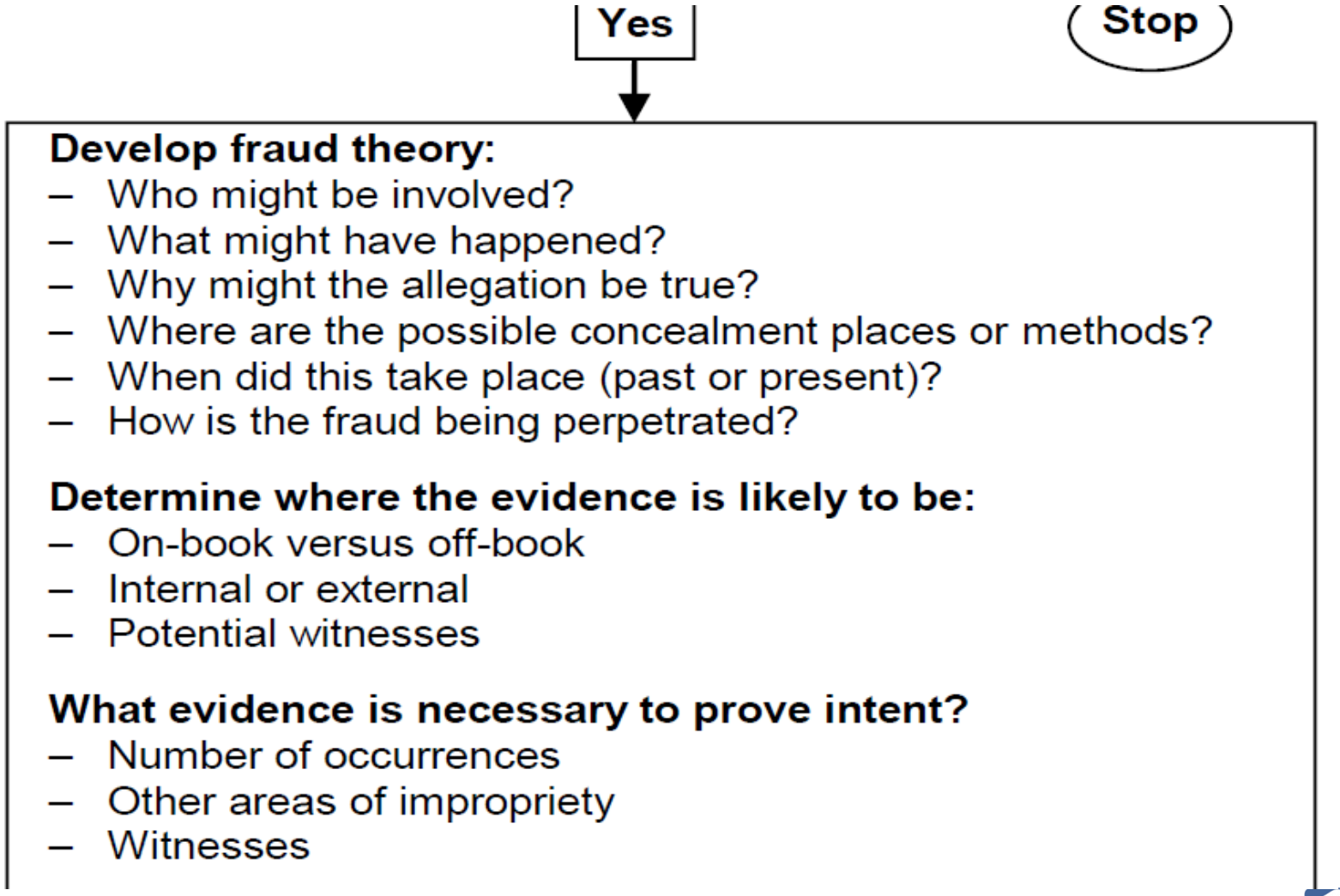
- It provides that when conducting investigations into allegations or signs of fraud the examiner needs to make a hypothesis (or theory) of what might have occurred based on the known facts as follows;



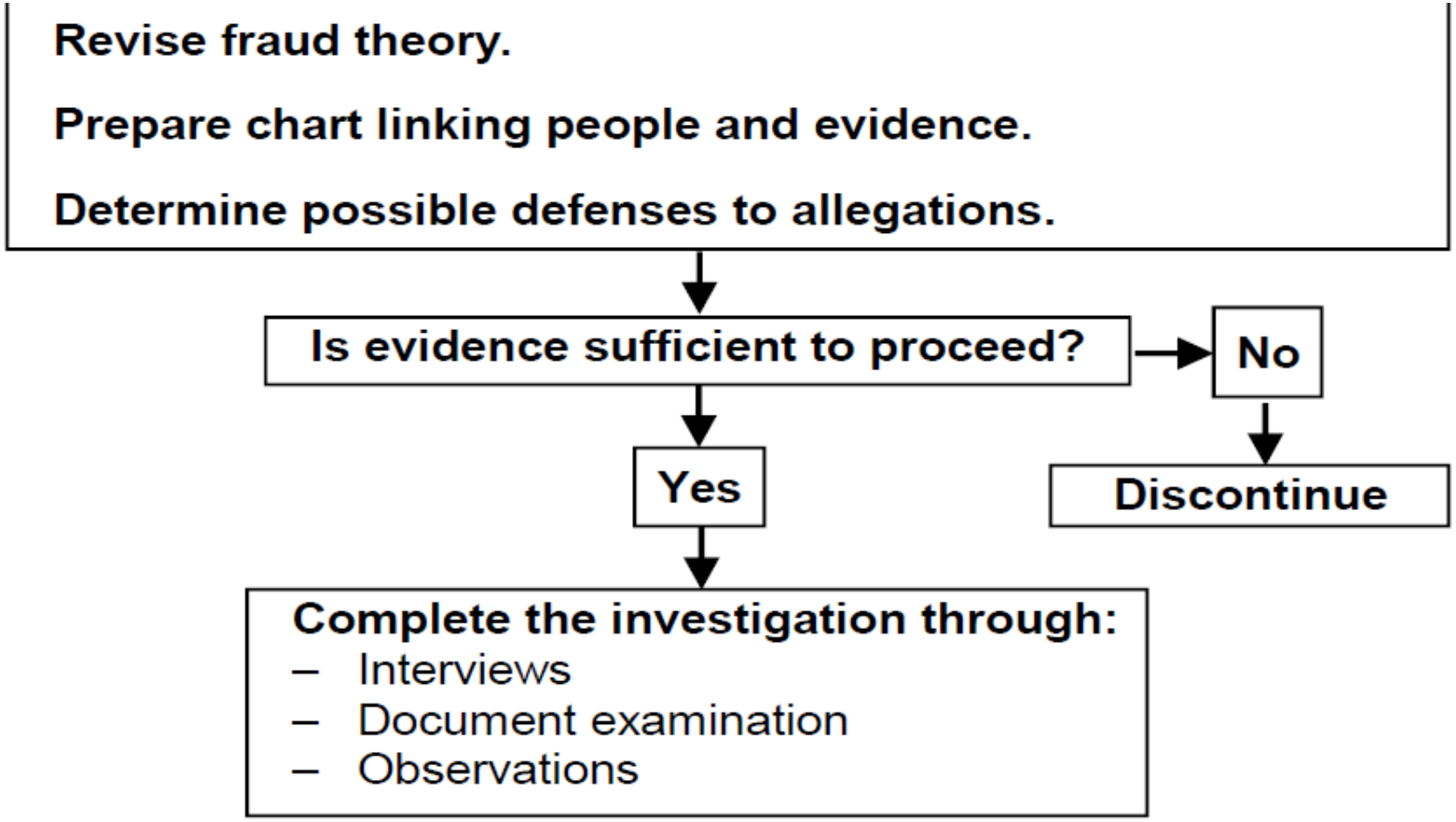
Fraud examination theory



Fraud examination theory



Fraud examination theory



Principles of Forensic Science

There are seven (7) basic principles of forensics sciences

i. Law of Individuality
ii. Principle of Exchange
iii. Law of progressive change
iv. Law of comparison
v. Law of Analysis
vi. Law of Probability
vii. Law of circumstantial facts

Categories of Forensic Science

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A. Criminal Identification
   i. Scenes of Crime
   ii. Photography
   iii. Finger Prints
B. Questioned Documents
C. Ballistics
D. Computer crimes (Digital forensics)
E. Chemical, Biology, Radiology & Nuclear e- Analysis
   i. Toxicology
   ii. Explosives and Residues
   iii. Foods Water, Drugs & Environment
   iv. DNA &Serology

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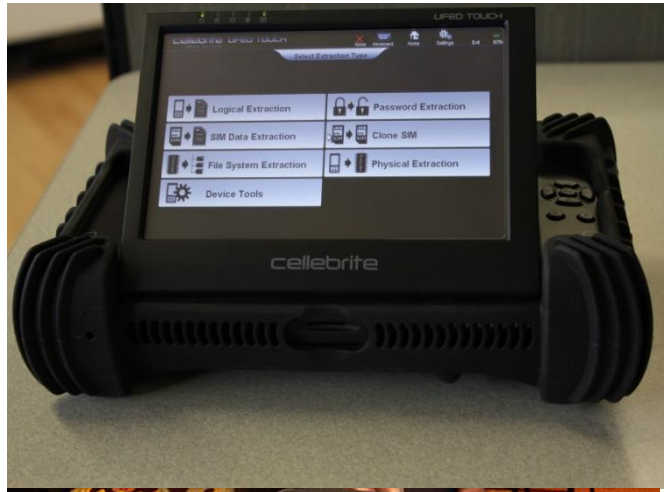
Types of digital forensic tools

A. Computer forensic tools
    i. Encase
    ii. SANS Toolkit
    iii. FTK (forensic tool kit)
    iv. IEF (Internet Evidence Finder)
    v. Wire shark/Caine and Able

Types of digital forensic tools

- Mobile device forensic tools
- Mobile phones come with a diverse range of connectors, the hardware devices support a number of different cables and perform the same role as a write blocker in computer devices



Methodology of digital forensics

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i. Seizure
ii. Documentation of seized items
iii. Delivery to the laboratory
iv. Assigning of case to Investigating officer
v. Forensic process flow
vi. Generation of forensic report

Methodology of digital forensics

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A. Forensic process flow

i. Documentation and photographing of device (Inside and outside)

ii. Imaging

iii. Processing of information

iv. Analysis

v. Extraction of relevant information

Role of SOCO (Scenes of Crime Officer)

i. Identifying and Gathering Evidence
ii. Documenting Evidence
iii. Preserving Evidence
iv. Testing Evidence for authenticity and validity
v. Reporting findings in courts of law (Testifying)

Handling of Exhibits

The main concept behind correct evidence handling is that the item recovered is the same as that produced in the courtroom. The usual term applied to such handlings is "chain of custody". The term denotes the links in the handling of the exhibit in question.

In any fraud investigation, it is the responsibility of the law enforcement and prosecuting agencies to compile the case against the suspect.

The standard of proof required to convict is beyond reasonable doubt

Handling of Exhibits

Chain of custody.

Refers to the chronological documentation or paper trail that records the sequence of custody, control, transfer, analysis, and disposition of physical or electronic evidence

Evidence management is the administration and control of evidence related to an event so that it can be used to prove the circumstances of the event.

Handling of exhibits

i. Package computer hardware & other storage devices.
ii. Check to see if the original packaging is available.
iii. Use non-static packing & Cushion material
iv. Preserve other forms of evidence, too
v. Latent prints
vi. DNA
vii. Trace evidence

Handling of exhibits

- Document the scene you are leaving
  - Photograph
  - Videotape
- You should have “before” and “after” documentation
  - This Counters accusations of “trashing the place”

Our *values* for your success!

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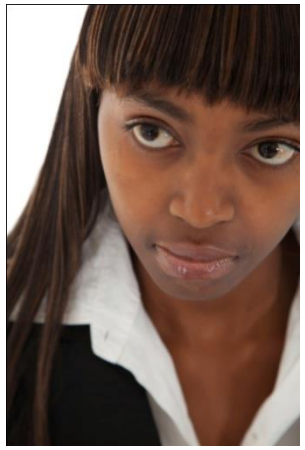
Thank you!



We take pride in doing the **right thing**, rather than what is right for **the profitability** of SCL.