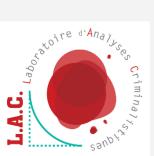


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#### **Decision Map** for Bloodstain Pattern Analysis

#### Philippe Esperança, CBPE

French Supreme Court Forensic Expert ENFSI BPA PG Chairman SWGSTAIN member



# Purposes of Map Decision for bloodstain patterns

- Improve the effectiveness of bloodstain pattern recognition
- Improve the success of BPA in court cases
- Different terms for fundamentally the same thing
  - Recognition, identification, categorization, taxonomy, etc

# Purposes of Map decision for bloodstain patterns

 These issues are taken from the viewpoint of categorizing information and standards
 Do not reflect any deep knowledge of blood, BPA or crime scene investigation!

#### • KISS

- Keep it simple
- Makes it more accessible to non-experts
- Definitely not a trivial exercise!!!

## **Problems encountered**

#### → WYSIWYG (What you see is what you get)

- ✓ Using a qualitative measure to differentiate patterns
- ✓ Describe characteristic data
- ✓ DON'T use all description, focus on specific characteristics (=criteria)
- → Categorizing the effects (bloostain patterns) and NOT the sources (mechanisms) of the bloodstains
- → Mixing up different types of criteria
- → Different mechanisms (sources) might have same pattern criteria

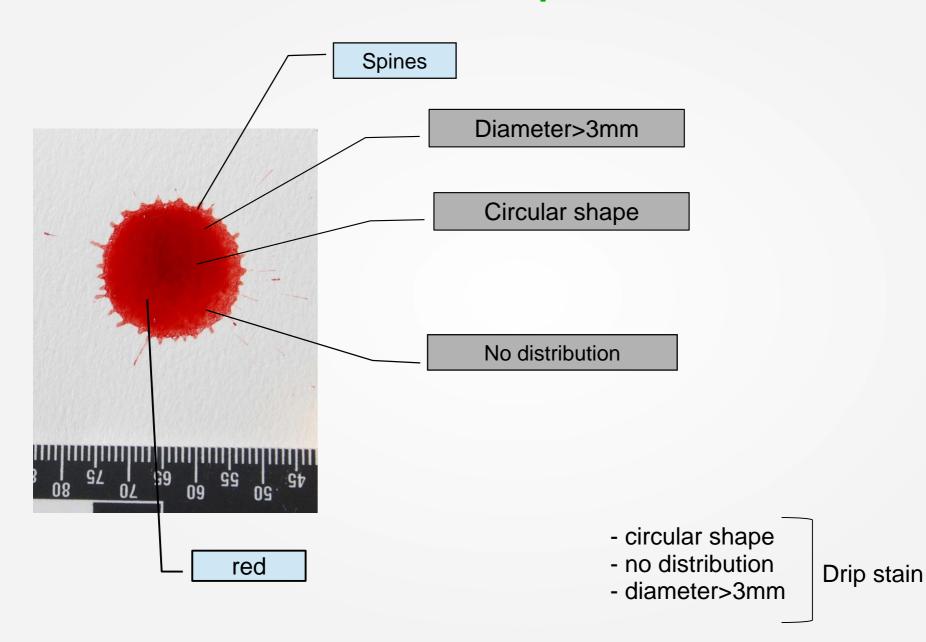
## **Problems encountered**

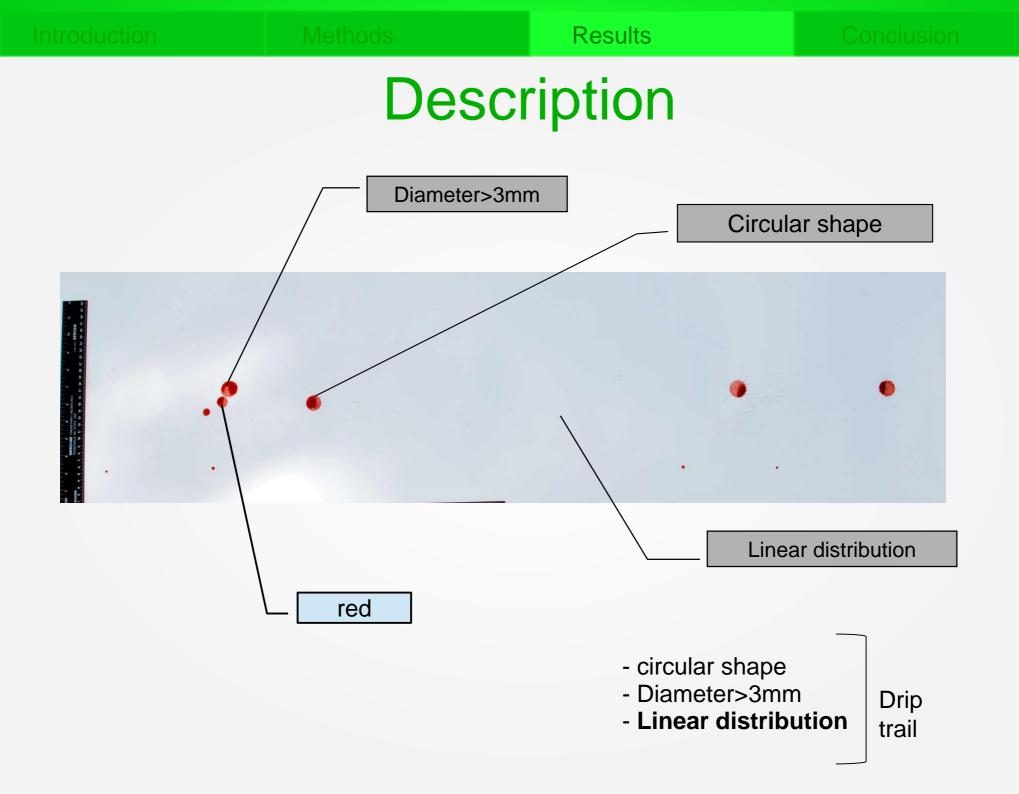
#### → Only objective criteria

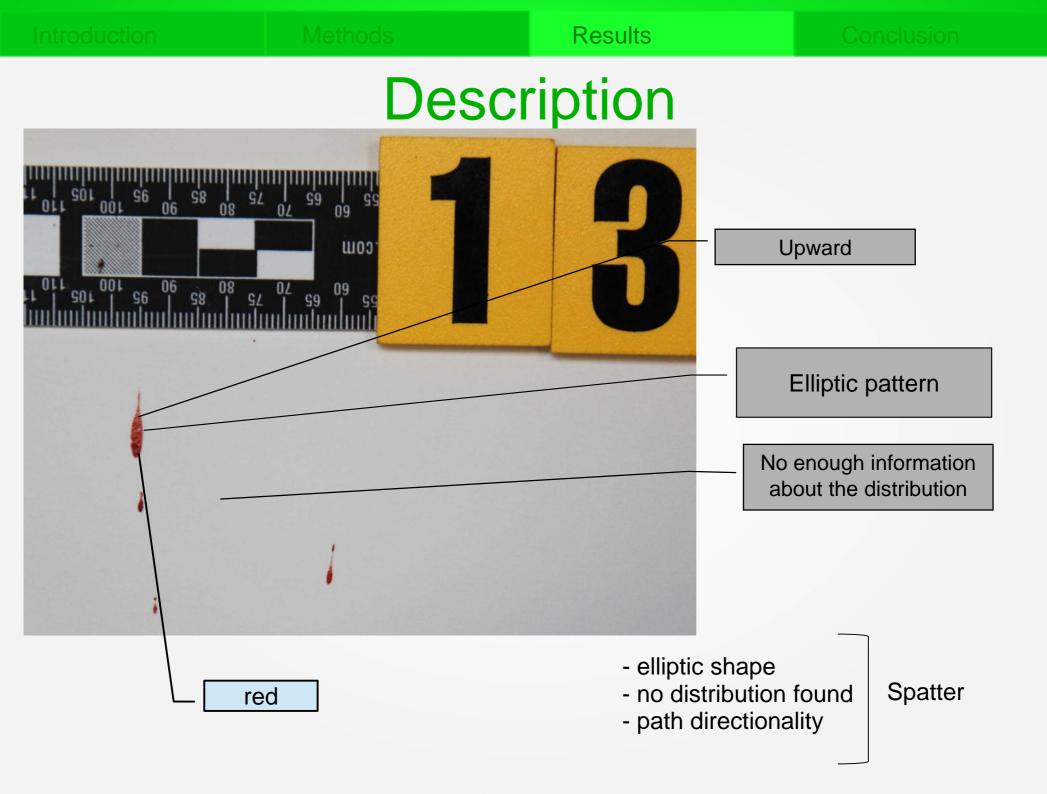
✓ Avoid bigger, shorter, redder ....

- → DON'T use metric criteria (eg. less than 1cm)
  ✓ Without any scientific paper agreement
- → Effects of the bloodstained surface and of the blood source

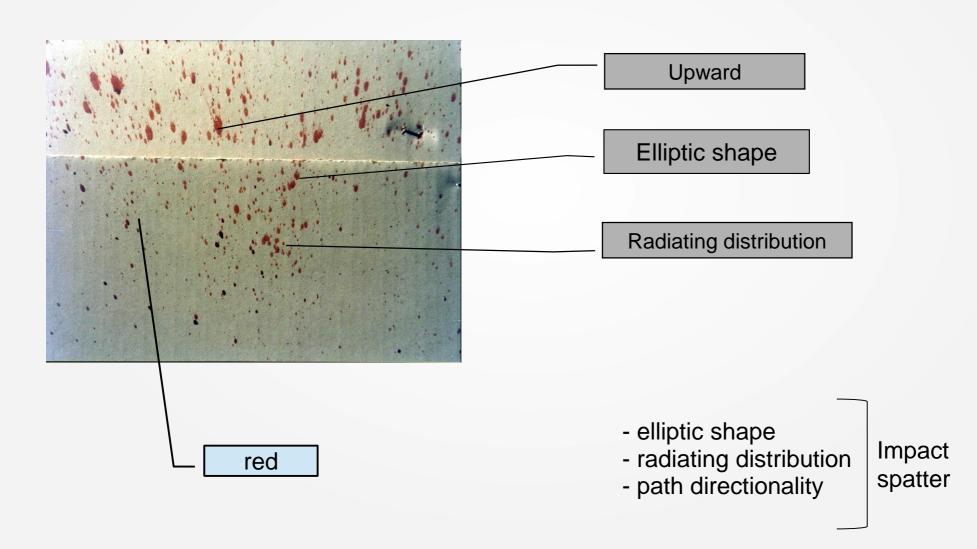
#### **Description**



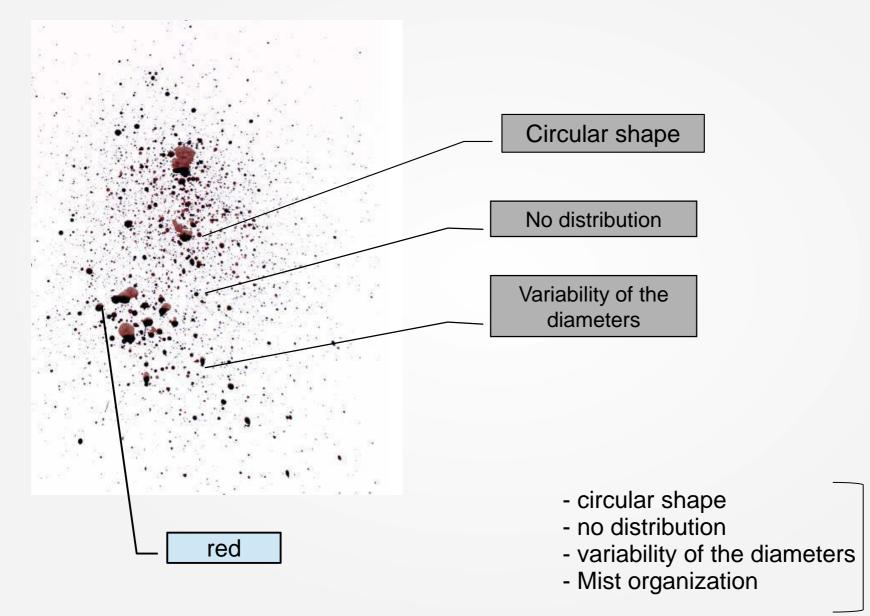




#### **Description**



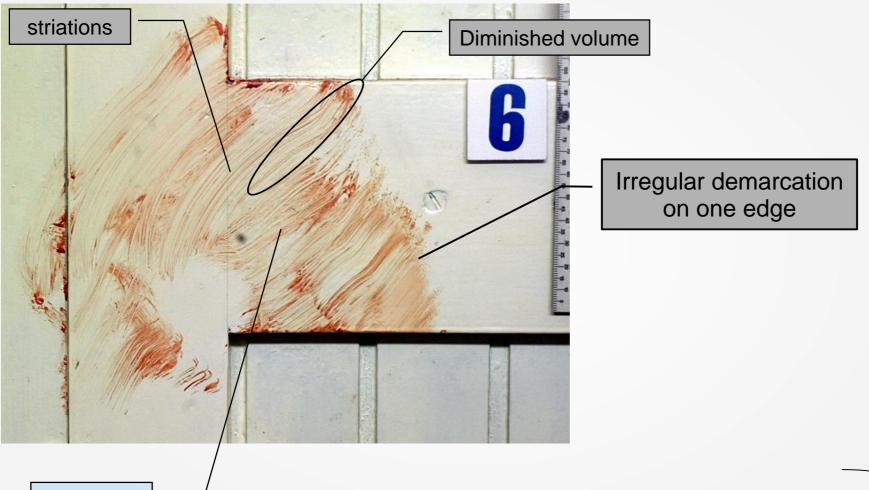
### **Description**



Experitated spatters

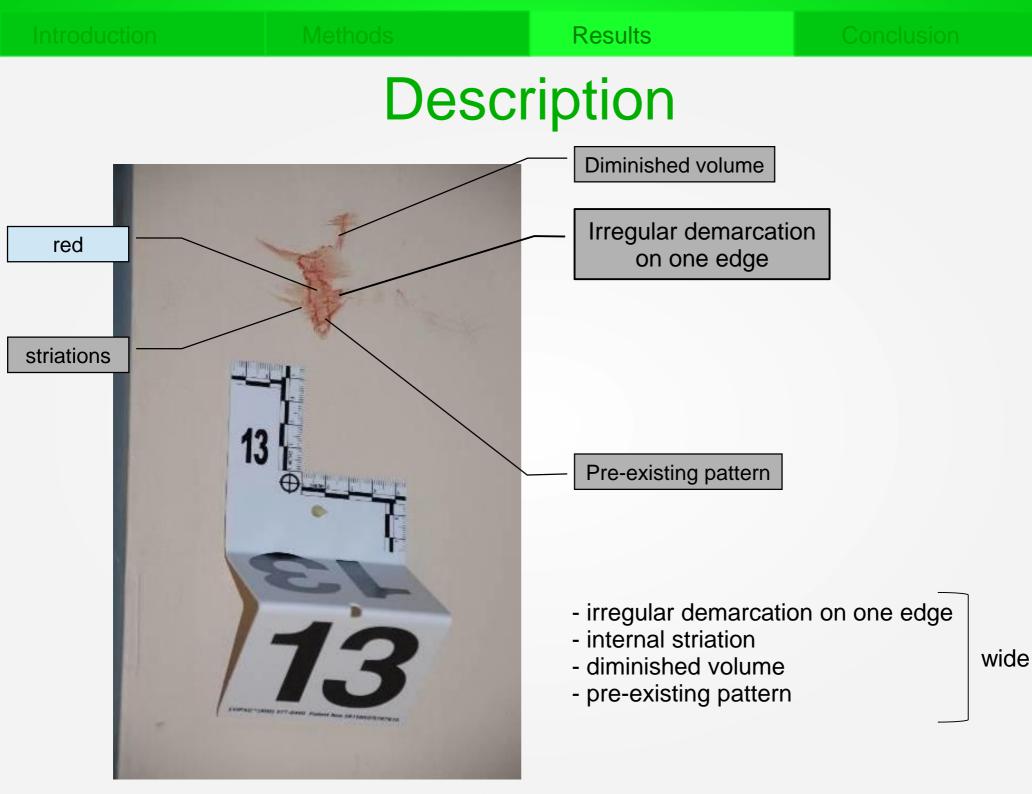
red

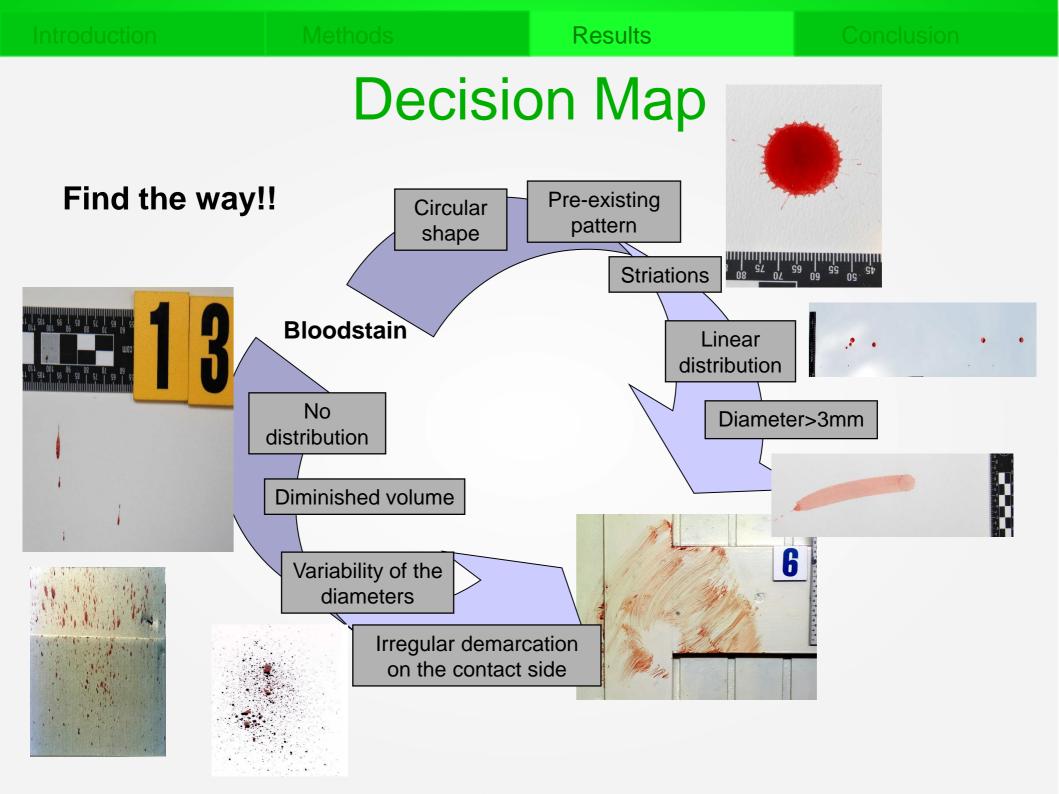
#### **Description**



- irregular demarcation on one edge
- internal striation
- diminished volume

swipe

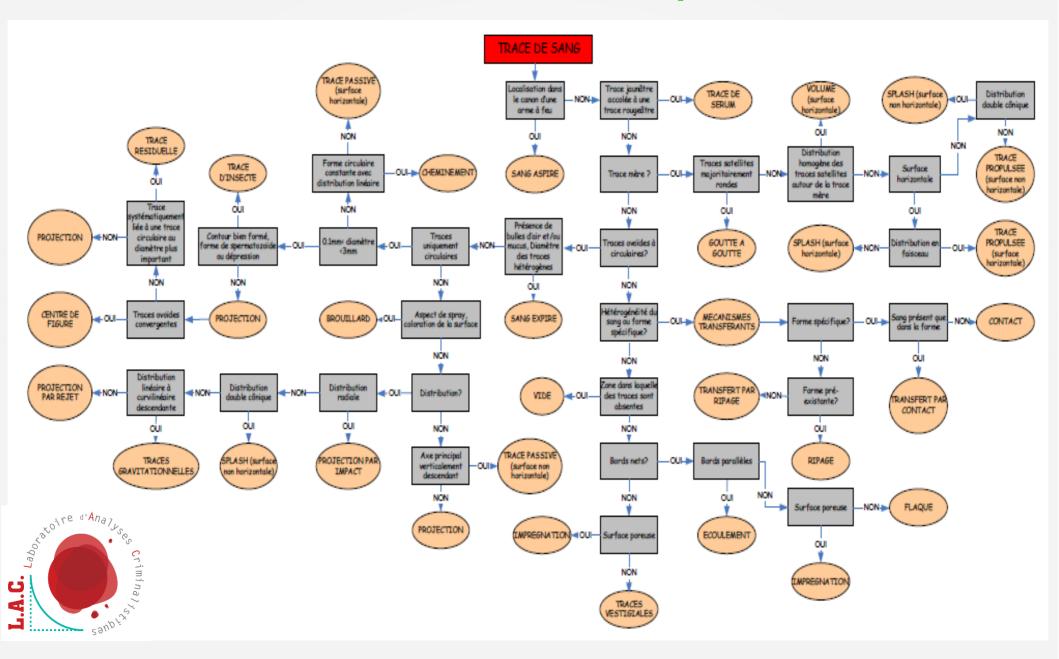




**Results** 

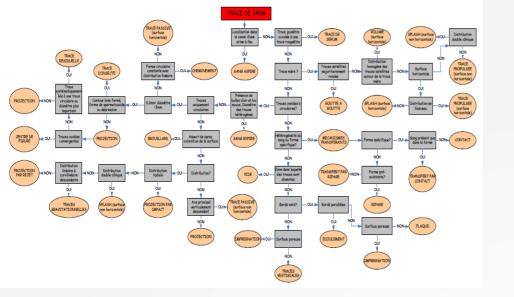
Conclusion

## **Decision Map**



## **Decision Map for BPA**

- > Rigour to ensure BP Recognition
- Strengthen BP Identification
- Standardize BP identification
  - Facilitate review by another BPA expert even from another country
  - Standardize 1<sup>st</sup> level of BPA training
- Reinforce Scientific approach for BPA
- Provide ISO recognition to the BP Recognition



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