

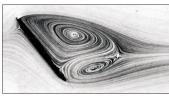
REOROM LABORATORY UNIVERSITY POLITEHNICA OF BUCHAREST Corneliu Balan & REOROM Team

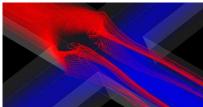






DYNAMICS OF THE INTERFACE or How many details do you need to characterize an object?







**MUCCA** – Multi-disciplinary Use Case for Convergent new Approaches to AI explainability

CHIST-ERA – 19 – XAI – 009 MUCCA project, by the founding of EC and UEFISCDI, grant COFUND-CHIST-ERA

## 1<sup>st</sup> meeting, Rome, 11-13 April, 2022





Traian

Aurelian

















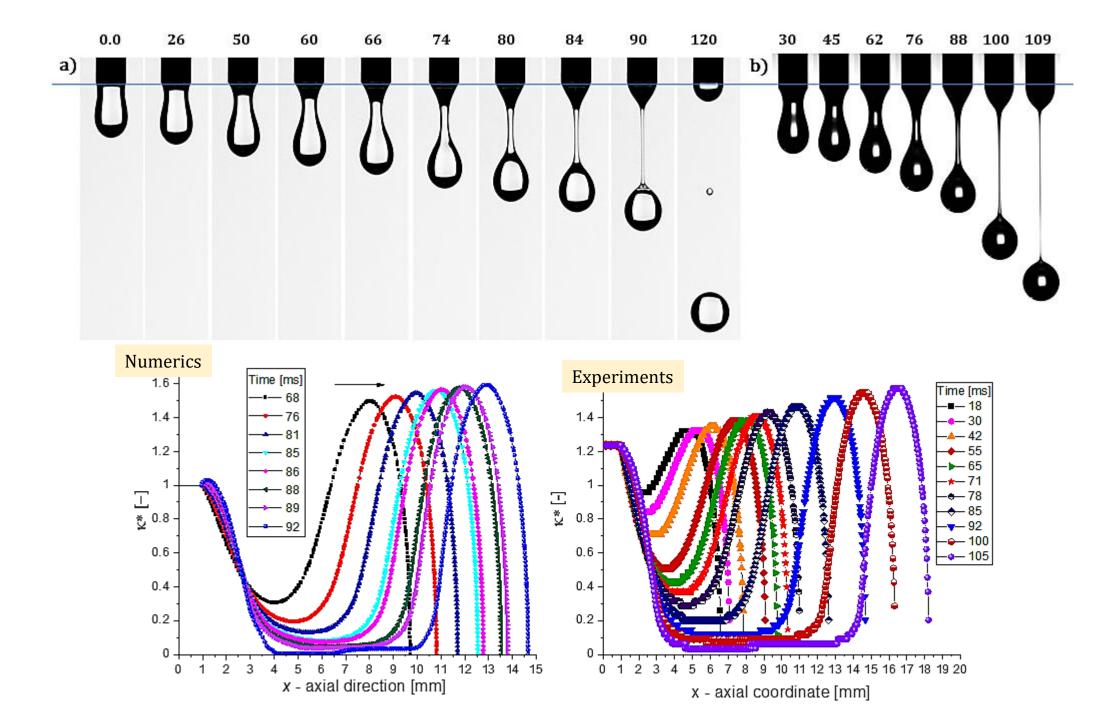


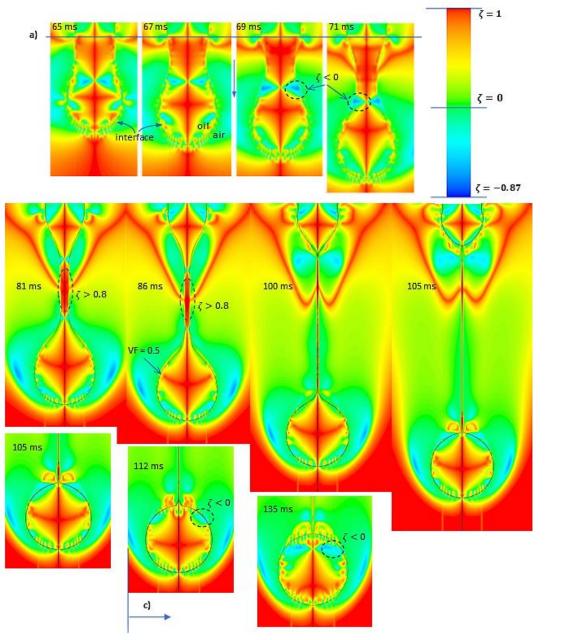


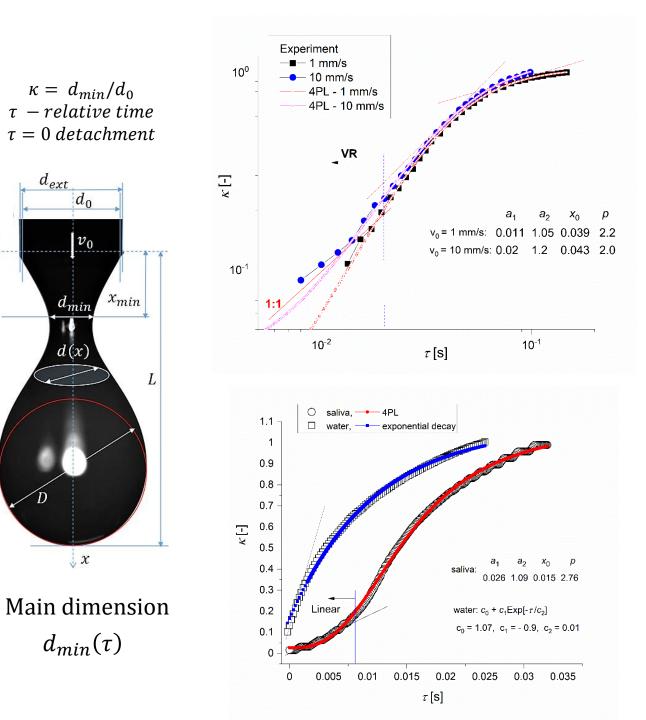












 $\kappa = d_{min}/d_0$ 

 $\tau$  – relative time

 $d_0$ 

 $v_0$ 

 $d_{min}$ 

d(x)

 $\therefore x$ 

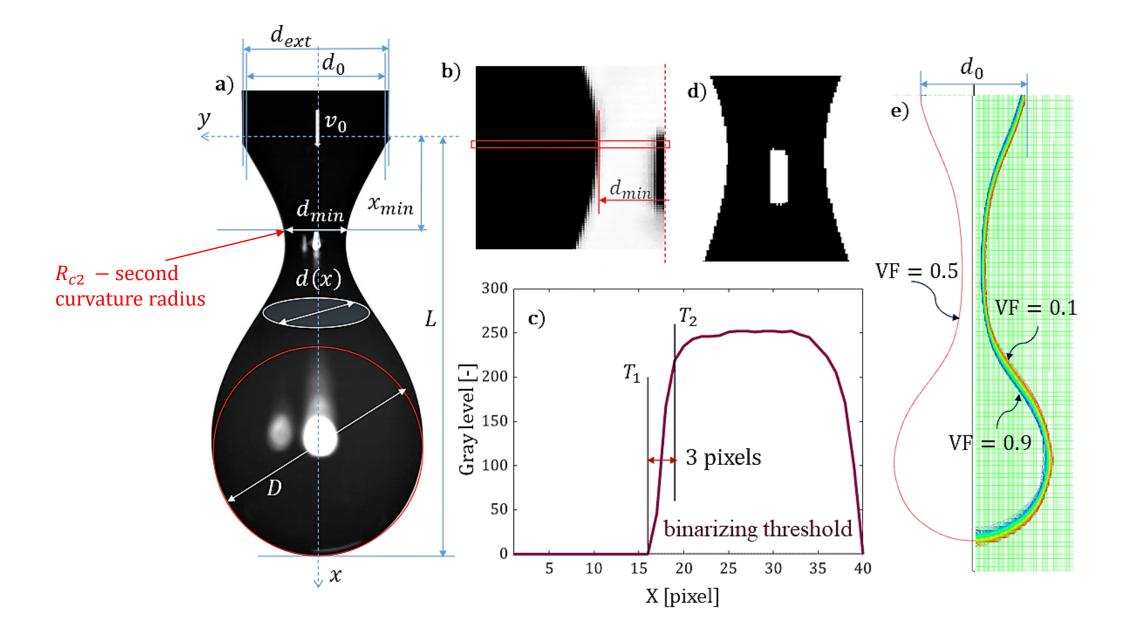
 $d_{min}(\tau)$ 

 $x_{min}$ 

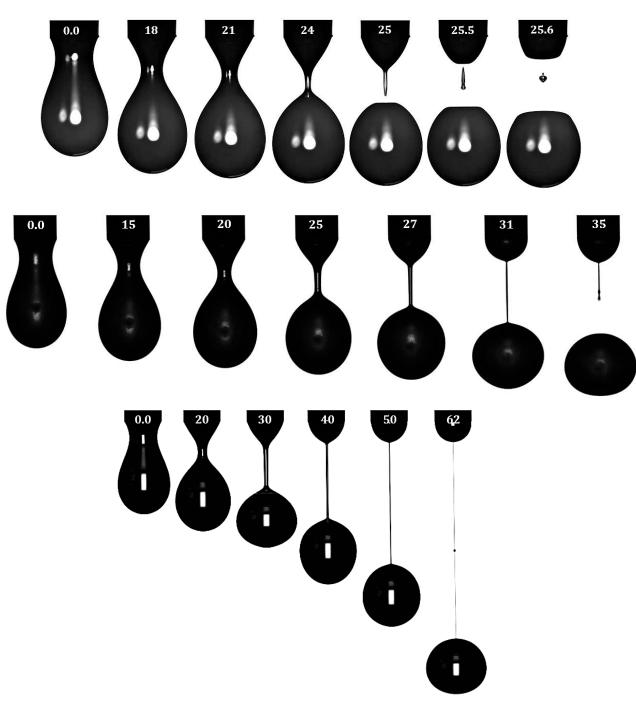
L

 $d_{ext}$ 

*y* ≼----



Parameters: curvature radii dependence in time



Goal of the study To relate a series of images with pinch-off/detachment droplets with the fluid properties

10 mm/s

