



POR FESR
2014 2020
Friuli Venezia Giulia

OPPORTUNITÀ PER UNA CRESCITA SOSTENIBILE



Smart Health: research
for business innovation

MAZA: an industrial project

EuroBioHighTech 2018

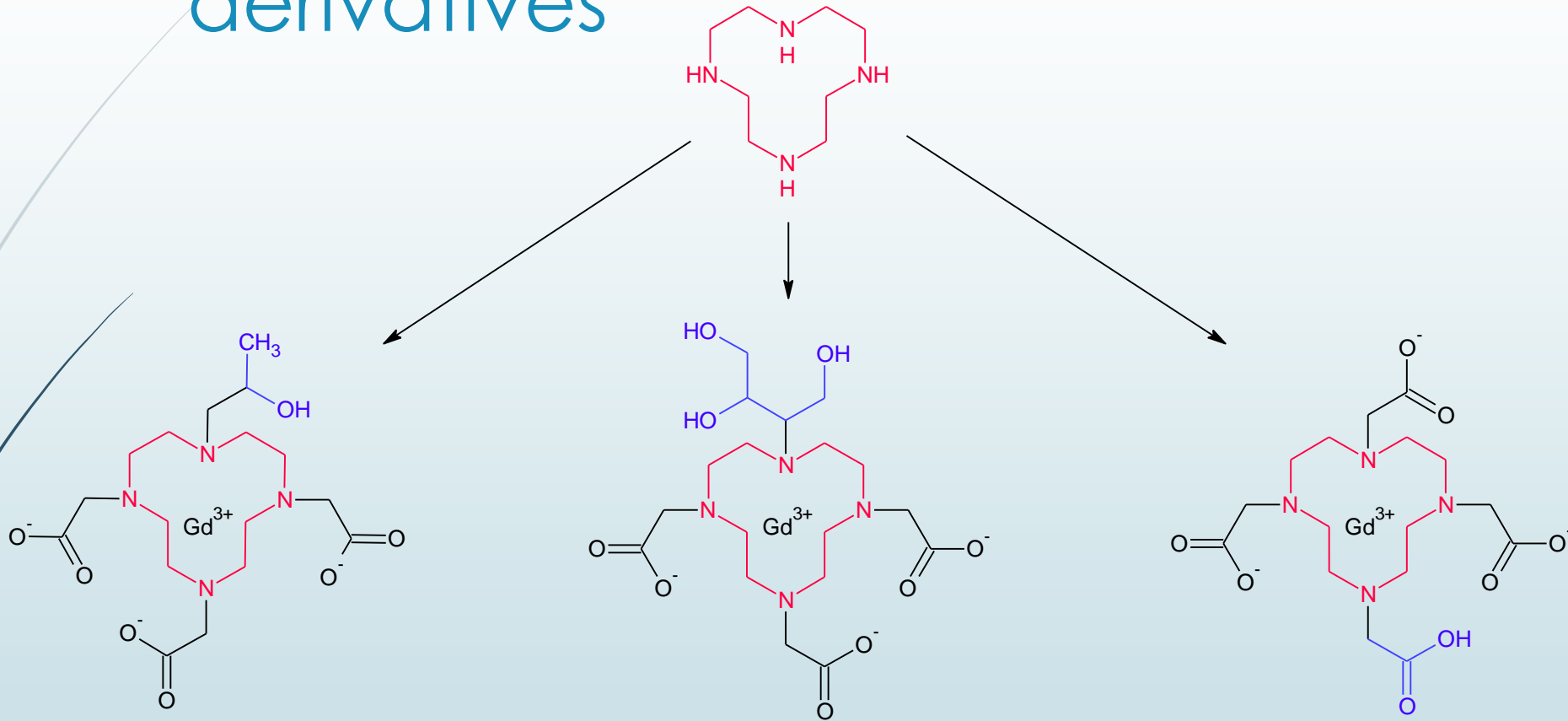
Trieste, September 26, 2018

Pietro Delogu



UNIVERSITÀ
DEGLI STUDI
DI UDINE
hic sunt futura

1,4,7,10 tetraazacyclododecane derivatives

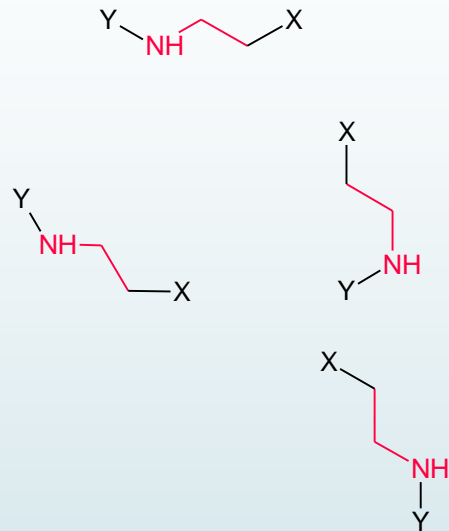


GADOERIDOL

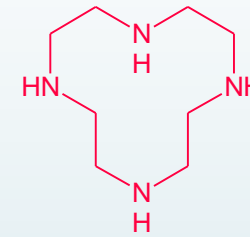
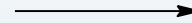
GADOBUTROL

GADOTERIC ACID

The starting point



Few € economic value



Several hundreds € cost

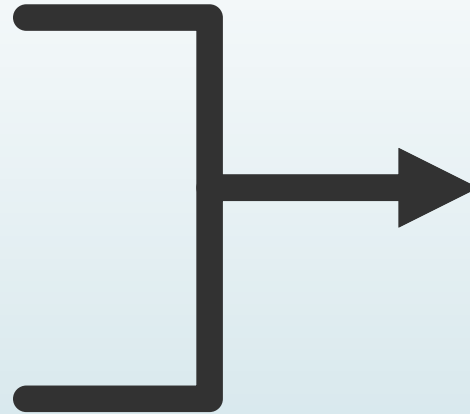


Big quantities of wastes

Process development components

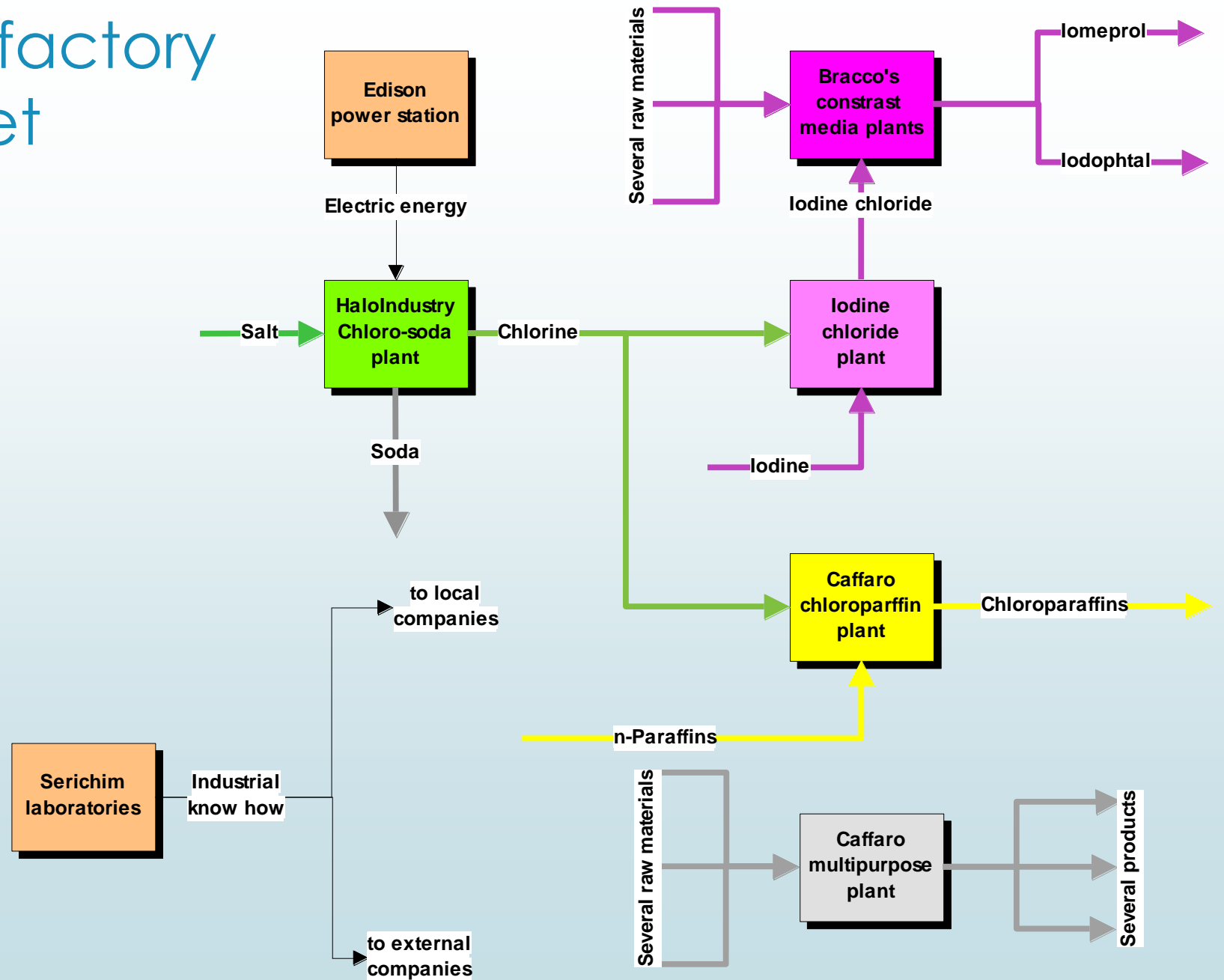
**New
chemistry**

**Advanced Process
technologies**



**Improved
process**

Torviscosa factory current asset



Technical roles of Partners



► UDINE University

► Study of new catalytic systems to form the Cyclene ring



► Bracco Imaging

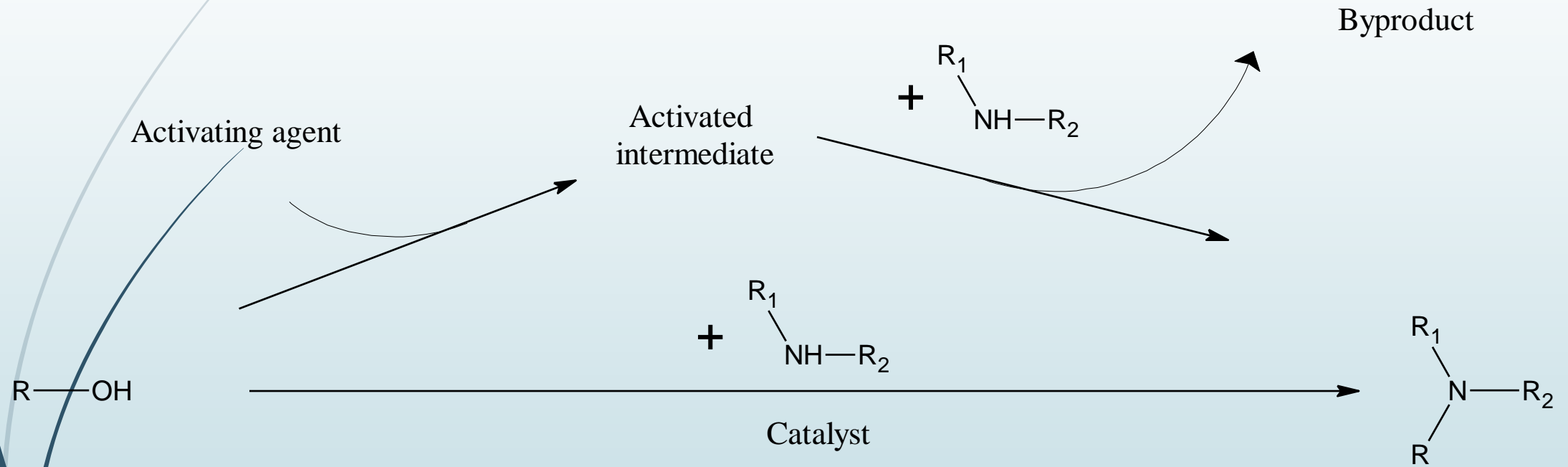
► Analytical support to the evaluation of synthetic path and quality compliance.



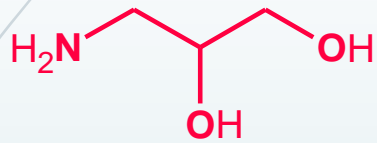
► Serichim

► Process development and optimization, introducing «flow chemistry» techniques.

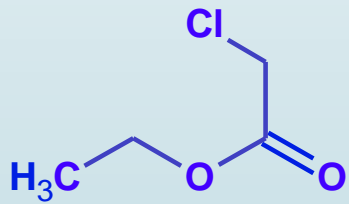
Chemical basis of prospectit synthetic routes



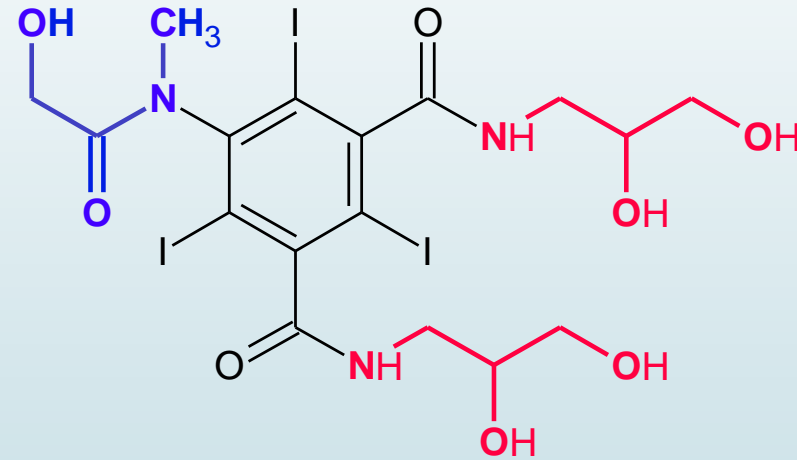
Outputs of DIAMANTE



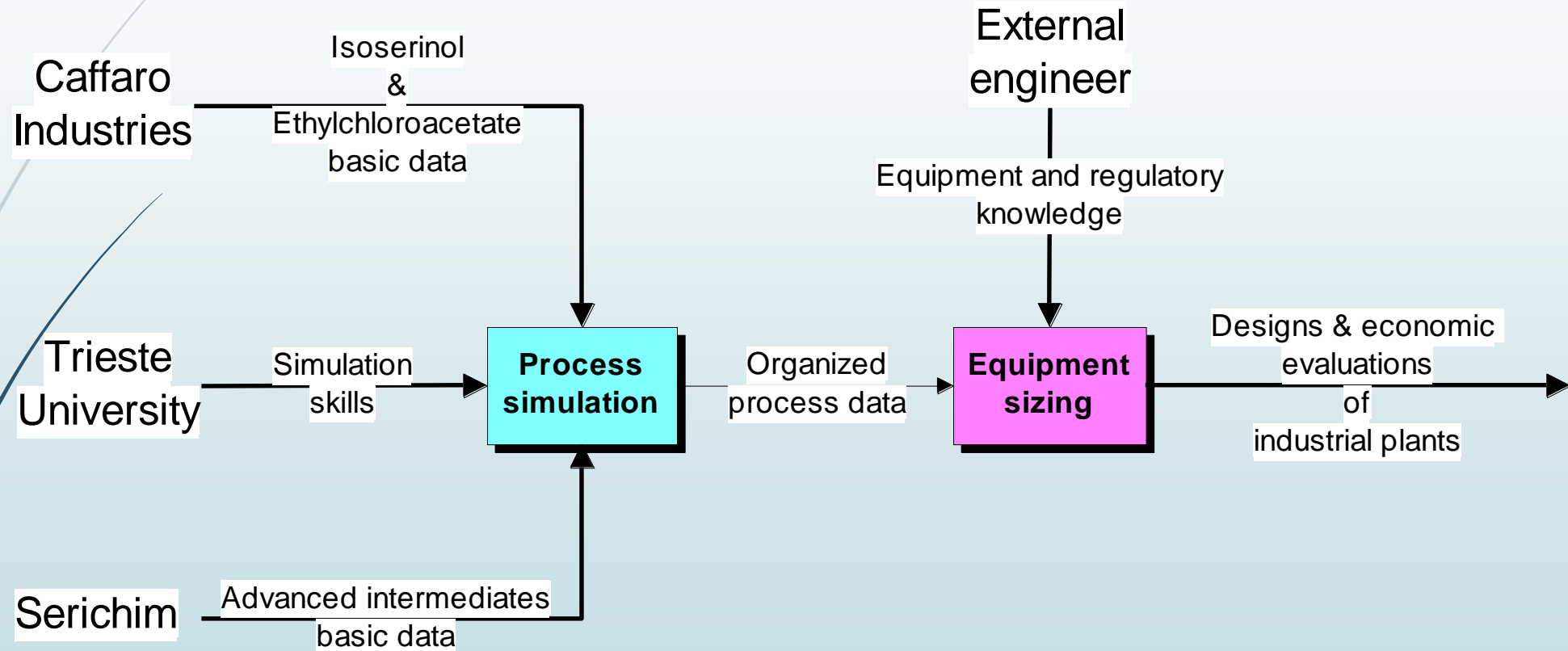
Isoserinol



Ethyl chloroacetate



Partners and technical organization of DIAMANTE





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Thanks for your attention



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LIFE FROM INSIDE