

# SMARTBOX

Selective  
Modifications of  
ARomatics Through  
Biocatalytic  
OXidations

Taking ENZYME  
EVOLUTION from the  
lab to the computer

Evolution strategy



50.000 mutants  
per day



Smart mutant library

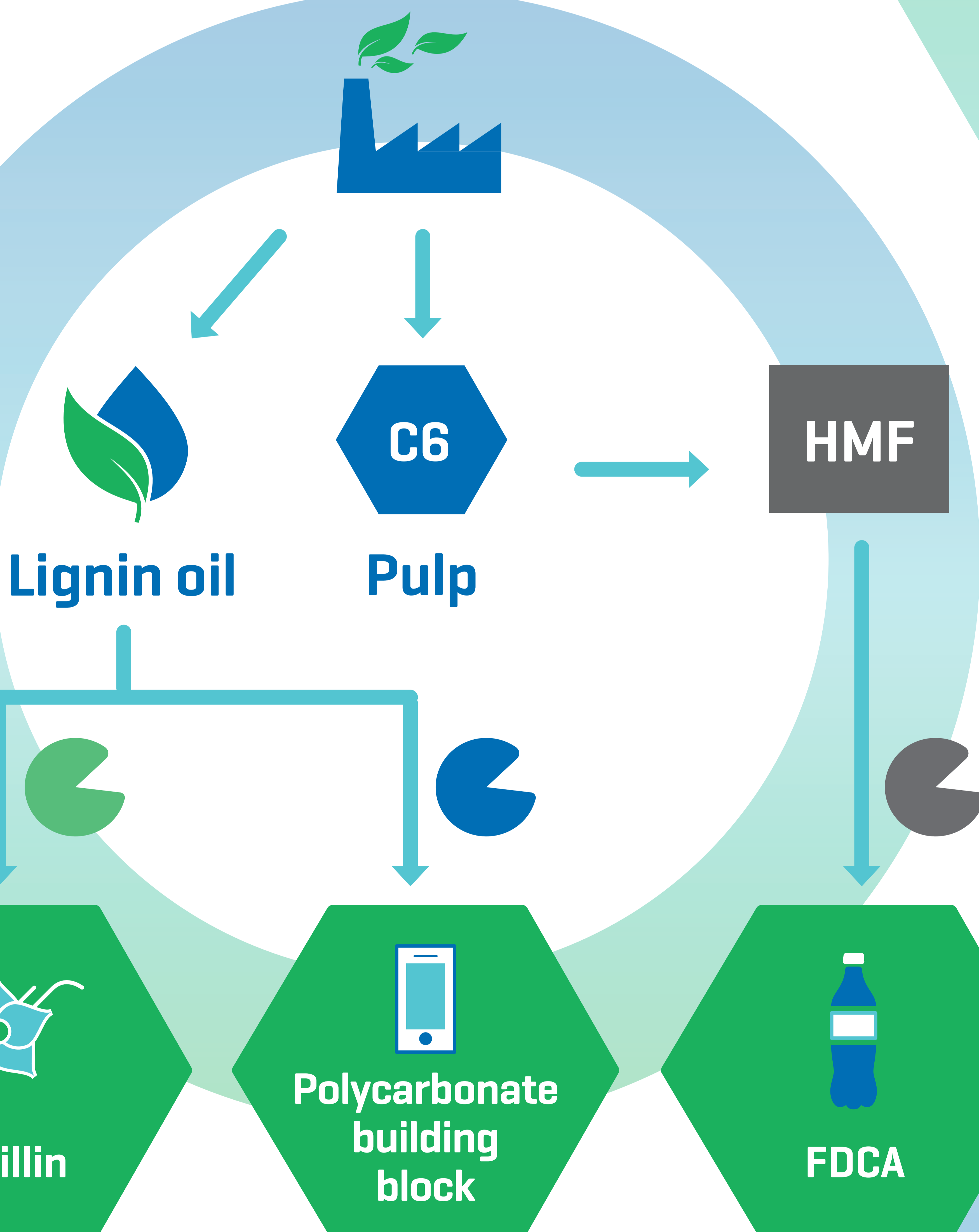
100 mutants

Machine  
learning

Improved enzymes

Lignocellulose

H<sub>2</sub>



Reductive  
Catalytic  
Fractionation  
and Oxidative  
Biocatalysis

Added-value  
bio-aromatics

[www.smartbox-project.eu](http://www.smartbox-project.eu)

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Consortium



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Partners



AVABIOCHEM



Quantis