

Beyond Compliance: Embedding High-Throughput Biodegradability into Bioplastics Innovation

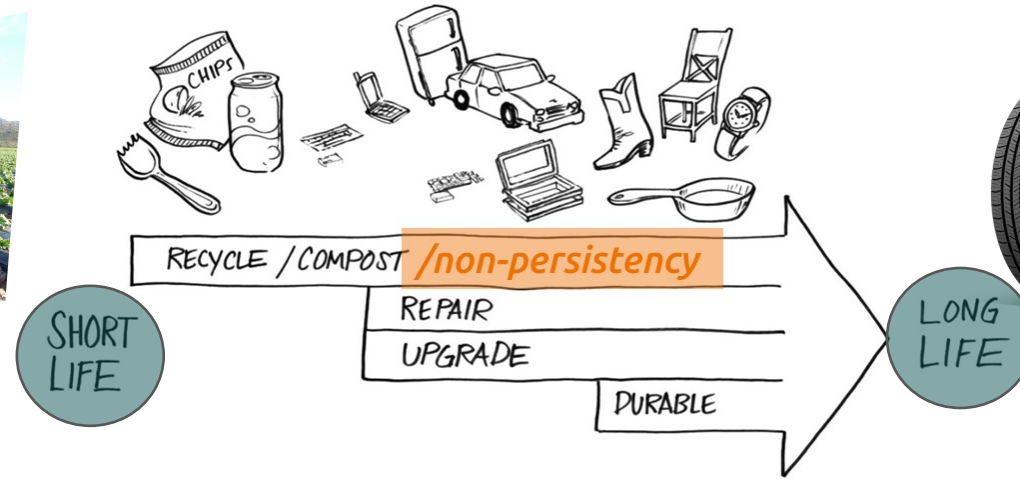
Sil Nevejans

11.09.2025, Online
Future of BioPlastics



Need for accelerated testing

Growing interest in non-persistence



Primary Microplastics



42 000 tonnes/year

14 Olympic-size pools



Up to 1.8 million tonnes/year

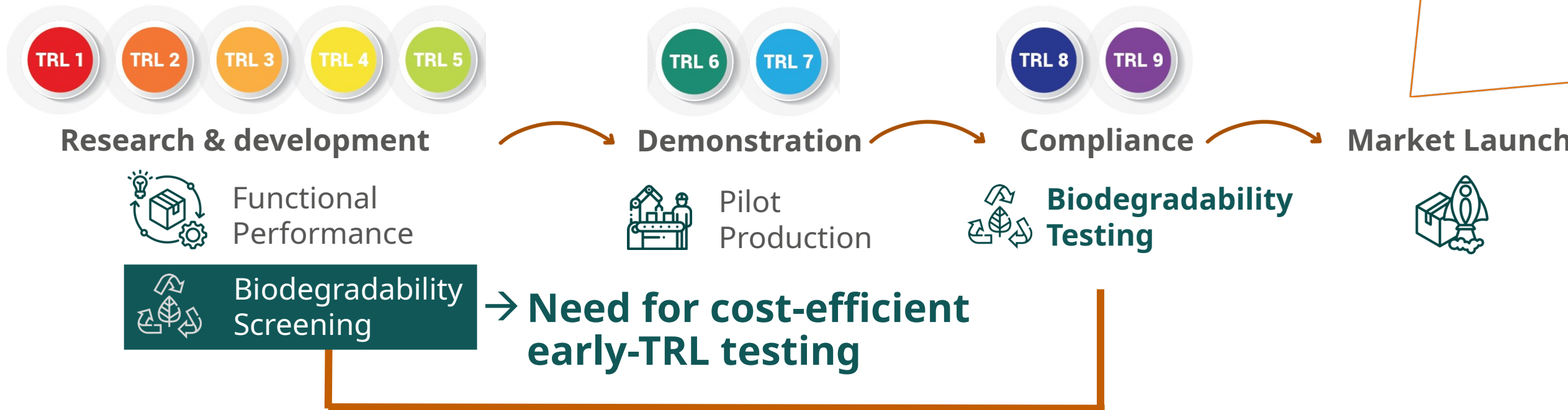
Up to 600 Olympic-size pools

Secondary Microplastics



Biodegradable/compostable/non-persistent products

Roadmap to Market

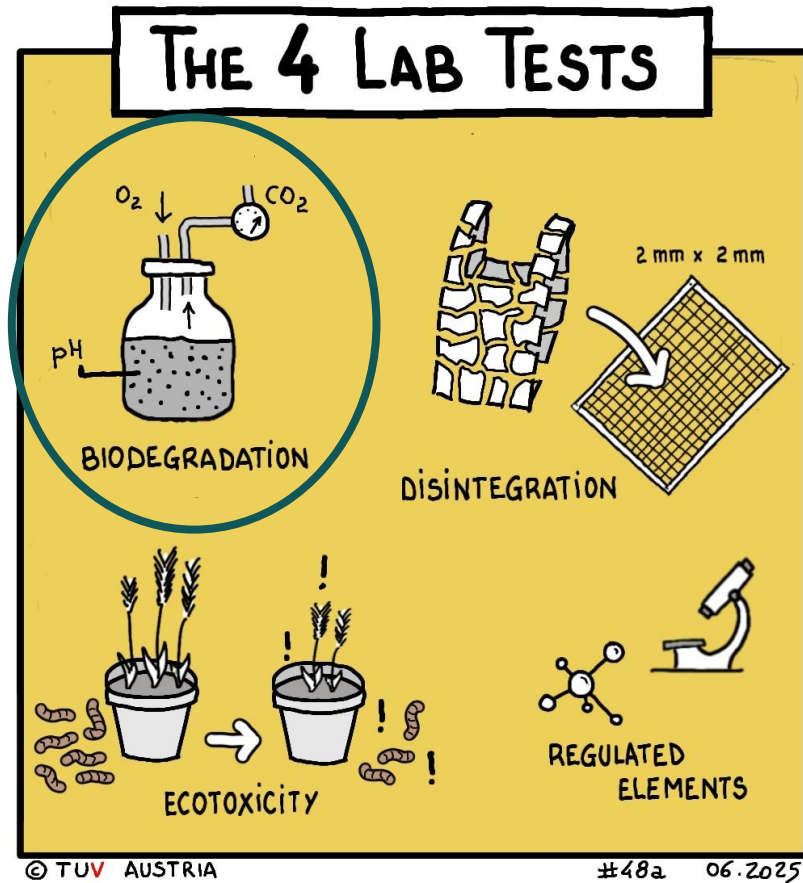


If not compliant

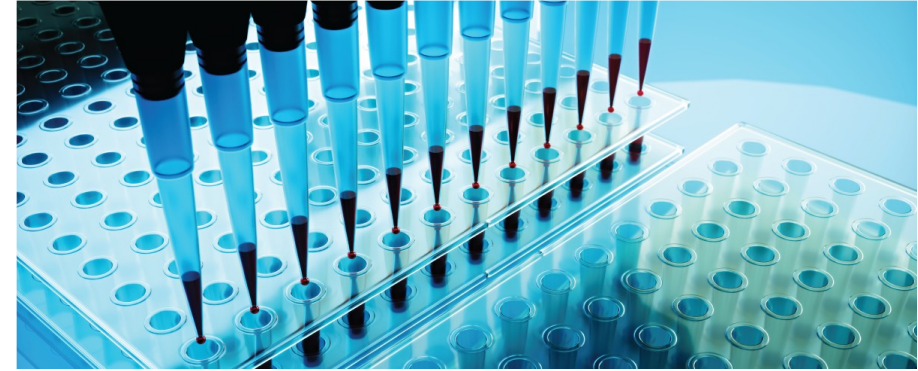
Loss of **TIME, MONEY, BUSINESS & MARKET SHARE,**

Where to start

Lab tests for Compostability



Pharma as an example

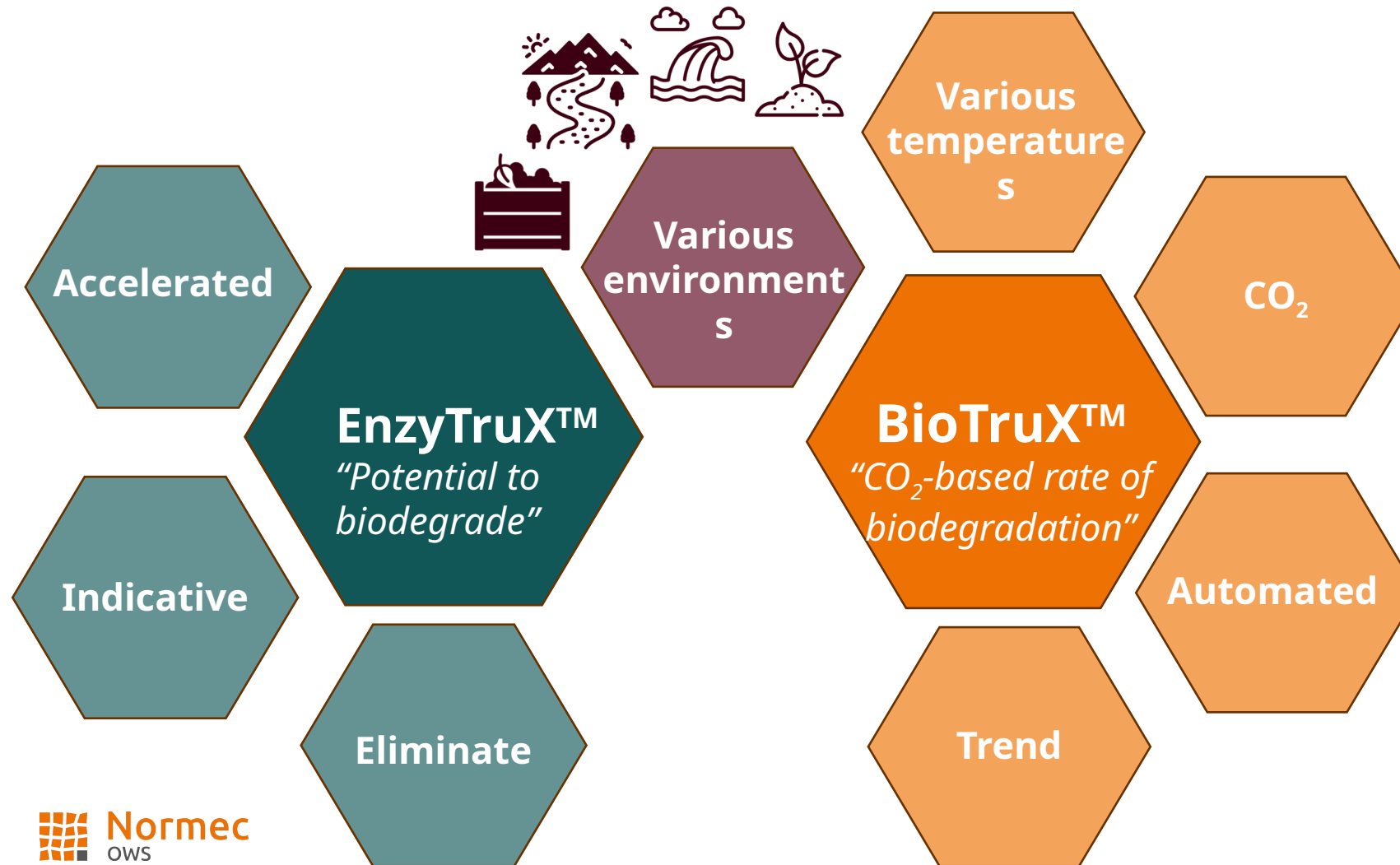


Drug Discovery through High-Throughput Screening

- **Rapid** testing method
 - **Automated** technology
 - **1000-1.000.000s** of samples **simultaneously**
 - Evaluate for a **desired activity or properties**
- **Efficient identification of best potential candidates**

High-Throughput Pre-Screening Testing

Accelerating product-to-market process



GOAL

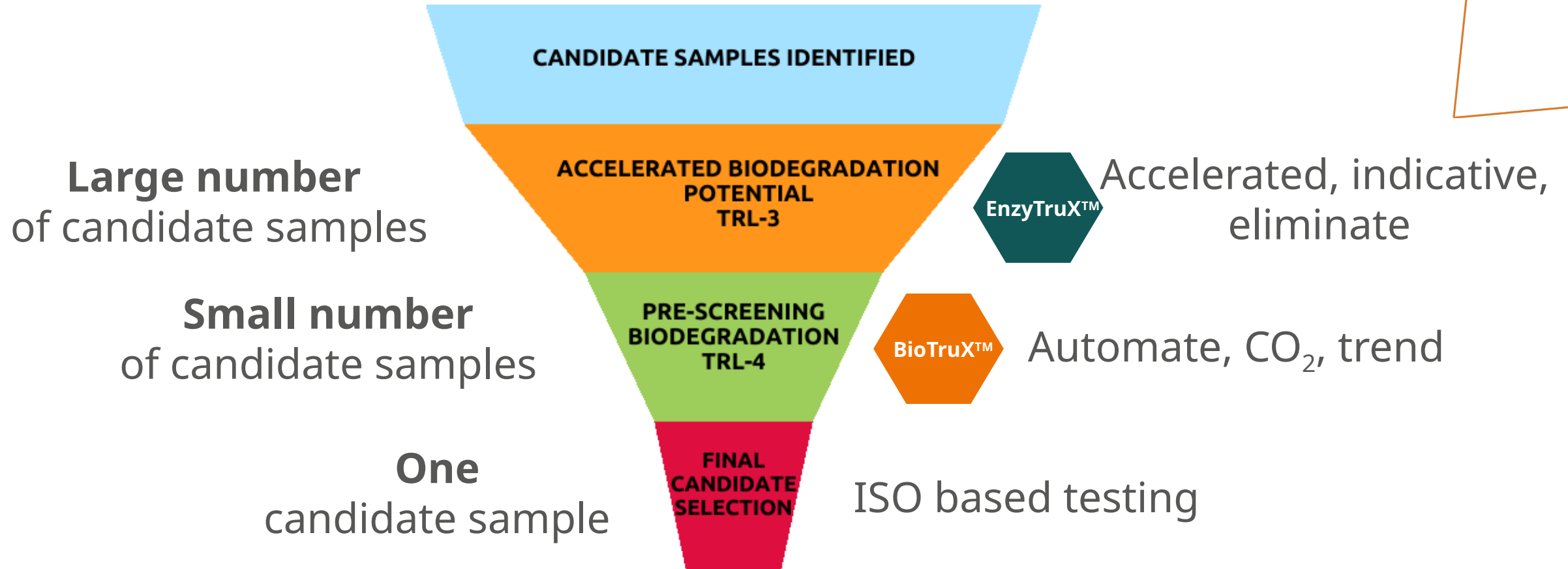
Provide **fast, reliable data** on **environmental impact and degradation behaviour**

BENEFITS

Early R&D testing
De-risking processes
Streamline budgets
Shorten development cycles
Big data generation

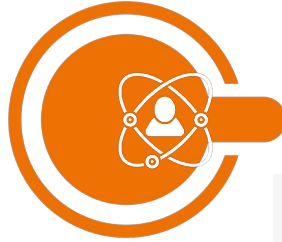
Opportunities for Product Design

Pipeline testing for new materials & technologies

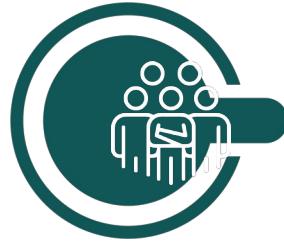


Normec OWS

More than **35 years**
of experience



Of almost 100 FTEs
over 60 **dedicated experts**



Strictly independent
No conflict of interest



Member of several
standardization agencies



Analyses
Biodegradation
Composting
Disintegration
Ecotoxicity

Trainings
Webinars
Intelligence Reporting
Sustainability
Assessments



15.000+ samples tested
for **1.500+** customers



World's biggest capacity of
3.500 test reactors
= short lead time



Recognized by
all certification bureaus
worldwide



Actively participating in industry
initiatives, European subsidy
projects & global events

Pushing sustainable solutions to the market together

How Normec OWS support you



High-Throughput Partnerships

Supporting material & product development

Who?

- **Start-ups & SMEs** developing innovative materials
- **Product development firms** seeking fast comparative data
- **Large brands** validating biodegradation claims

Key applications

- Rapid screening of **R&D formulations**
- Verifying (synergistic/antagonistic) **ingredient effects**
- Measuring impact of **environmental conditions** and T
- Indication of **biodegradation rate & time**
- Supporting **sustainability and compliance goals**

Early adopters



MICHELMAN



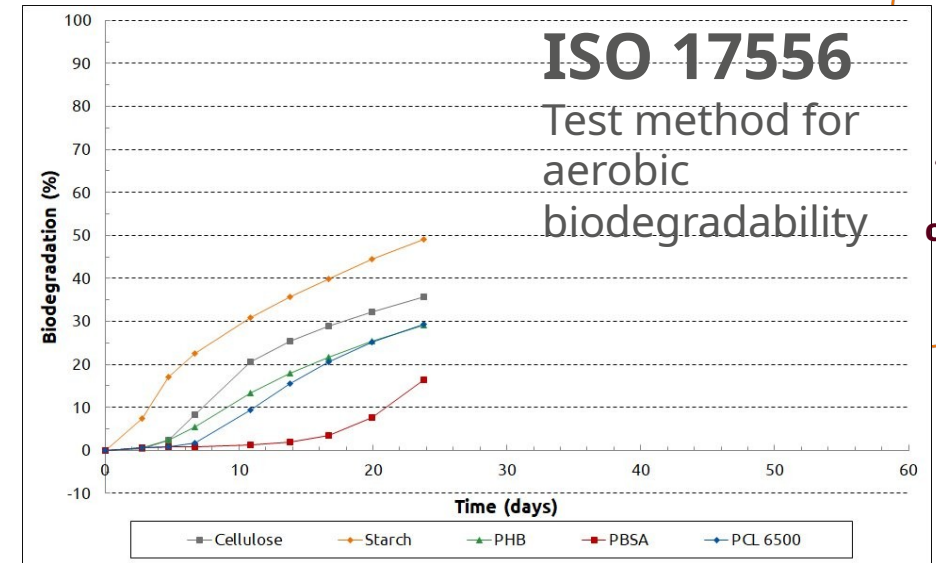
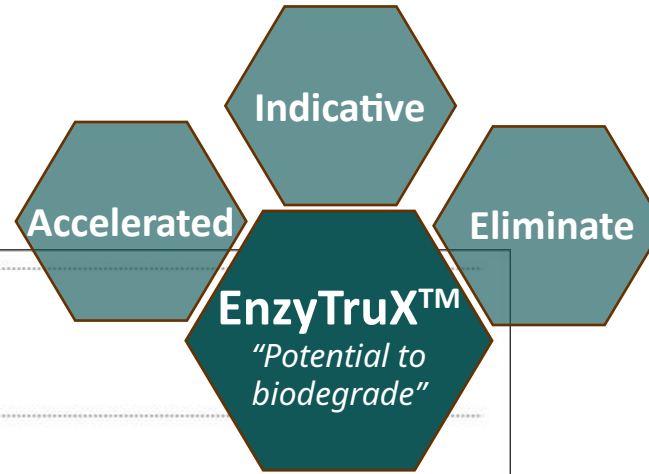
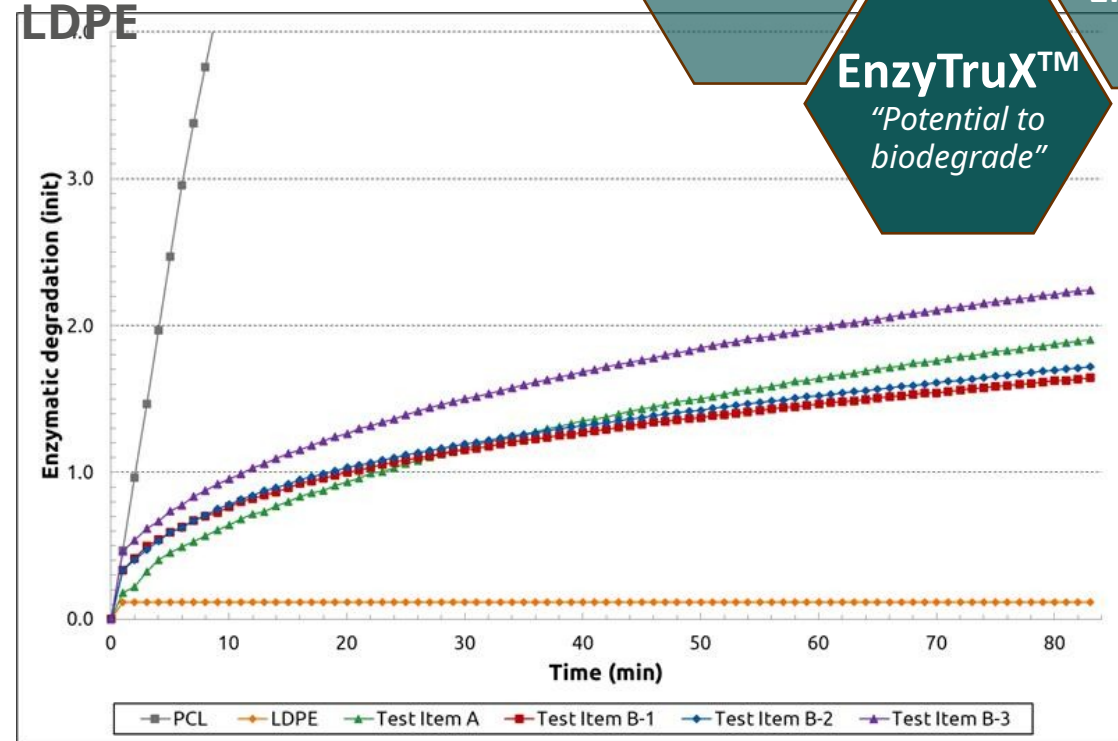
Unilever



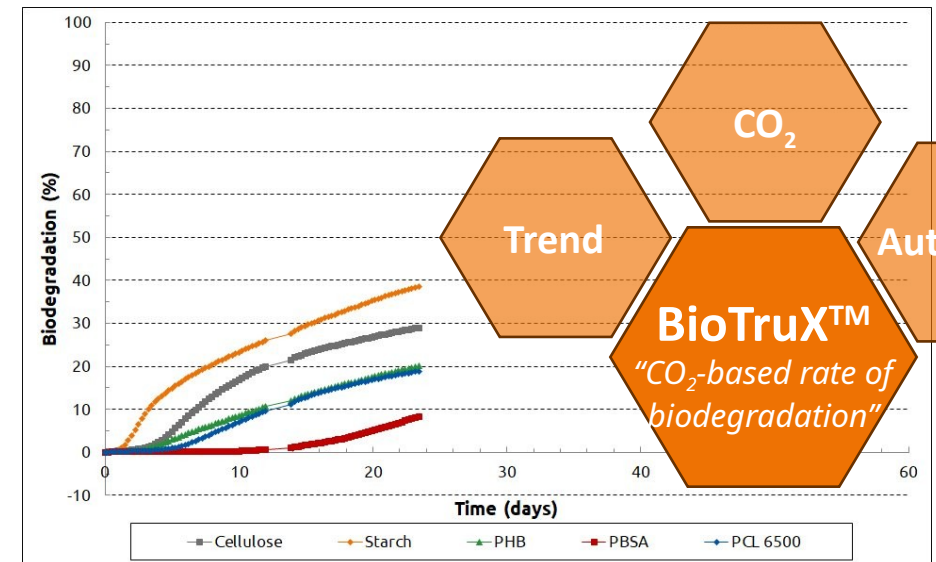
Validation of EnzyTruX™ & BioTruX™

First test results

Test samples compared to PCL & LDPE



ISO 17556
Test method for
aerobic
biodegradability



Trend

CO₂

Automated

BioTruX™
"CO₂-based rate of
biodegradation"

Questions?

Contact us!

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Let's do this...
TOGETHER!

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