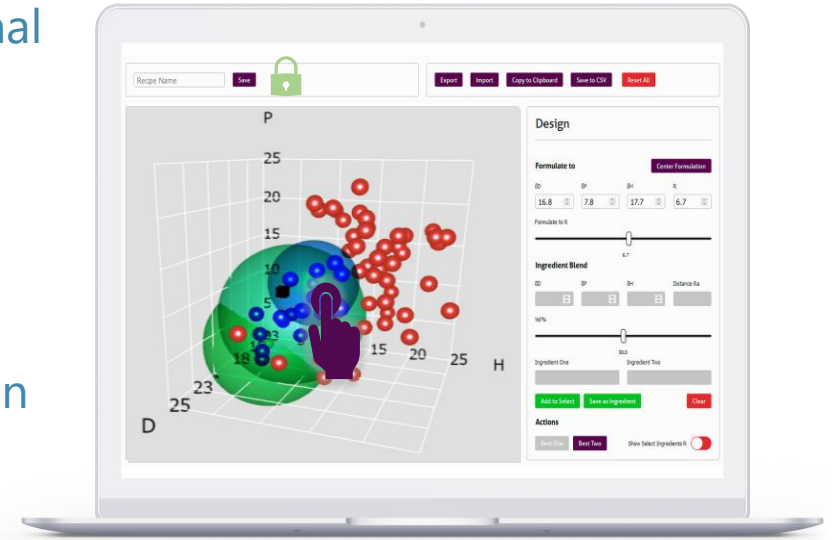
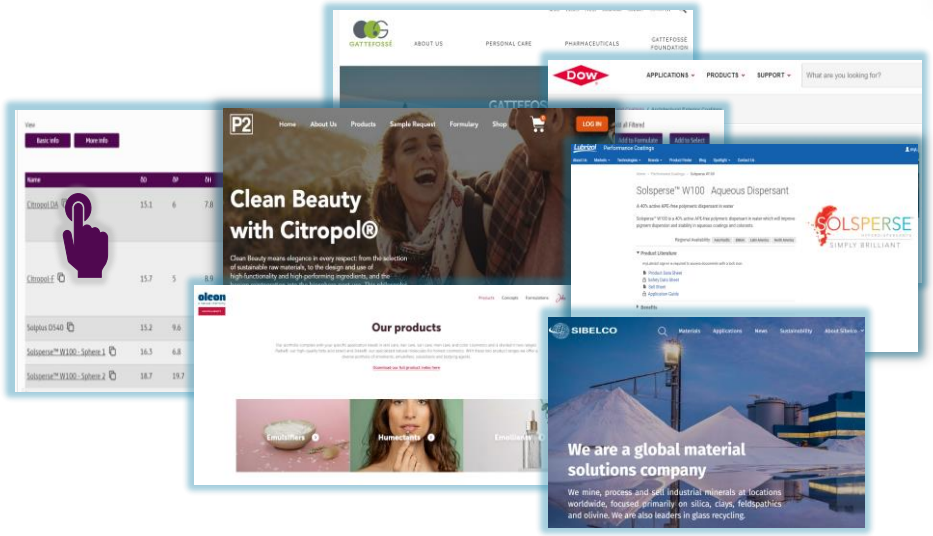
Web-apps PrediMatch and PrediMulsion: Science-based Formulation R&D

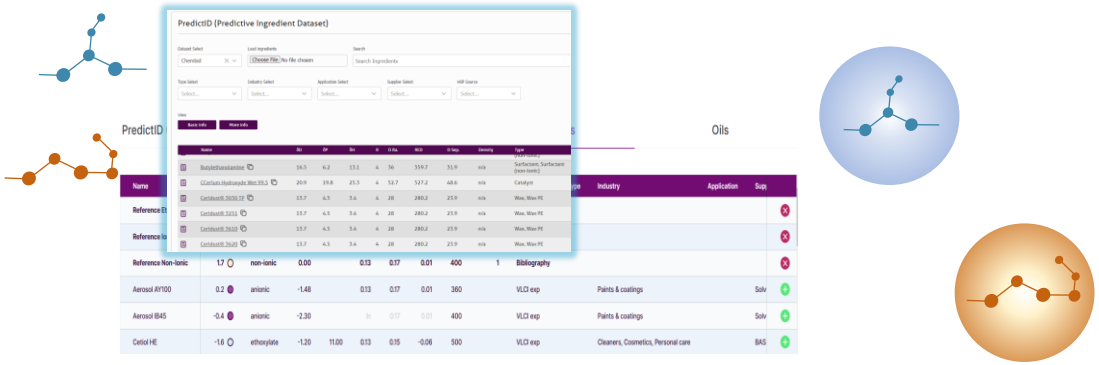
- **Science-based formulation R&D** of coatings, inks, personal and home care, … = **simplified via web-apps**
- **Sustainable use** of **HSP and HLD** from **commercial ingredients via our world's largest** shared dataset **PredictID**
- **Find 100x faster** your **matching, replacing and compatibilizing** ingredients and **narrow down** formulation space **a 10-fold!**

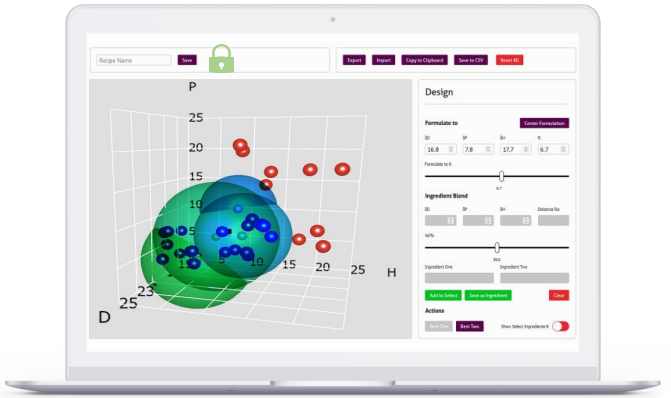




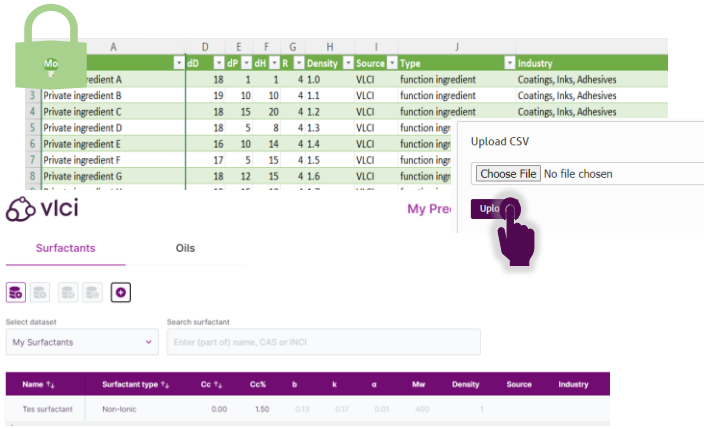
Web-apps PrediMatch and PrediMulsion: Sustainable & Collaborative Formulation R&D

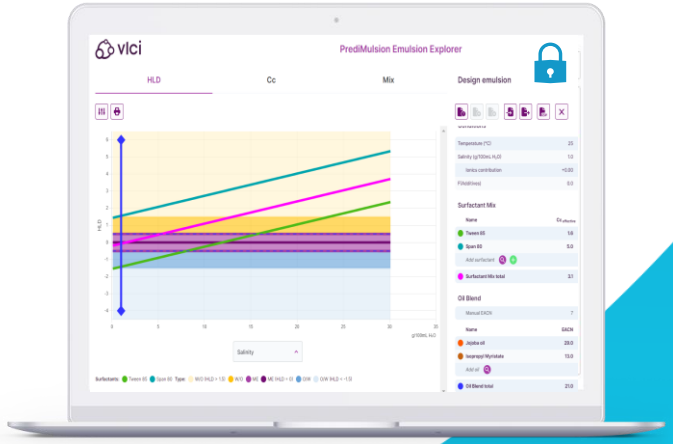
- **Collaborative** upgrade; **free HSP and HLD** of selected **ingredients by users,** while **suppliers adding any ingredient** for **free** (and receive HSP/HLD). **Already >16k ingredients, >100 types and >90 suppliers**





- **Privately** upload your own HSP/HLD datasets





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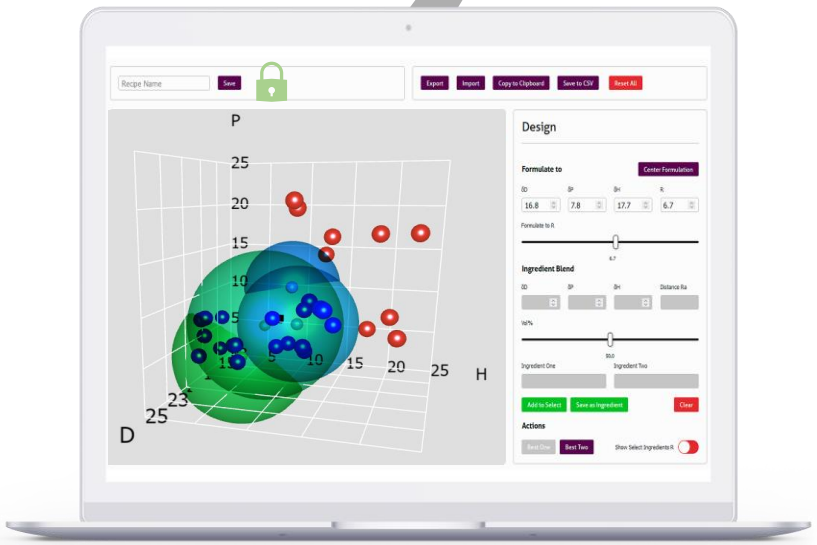
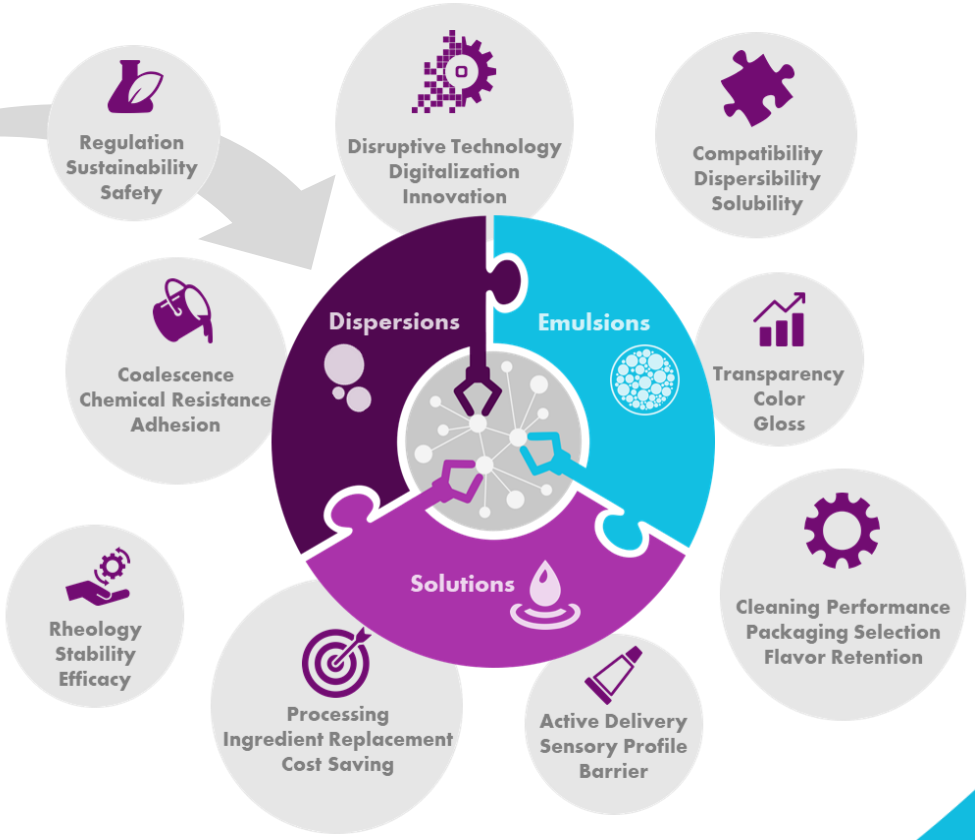
Web-app PrediMatch: Sustainable & Collaborative Formulation R&D

- **PrediMatch** calculates **best matching ingredients to formulate** based on **HSP distances** to **optimize performance**





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Web-app PrediMulsion: Science-based Formulation R&D

- By **matching HLD** of oils and surfactants in your emulsion, a **minimal amount and number** is needed to get the **maximum performance!**
- **PrediMulsion** calculates **best matching ingredients** based on **HLD distance**

$$HLD = F(S) - k.EACN - \alpha.\Delta T + Cc + f(A)$$

Surfactants | Oils

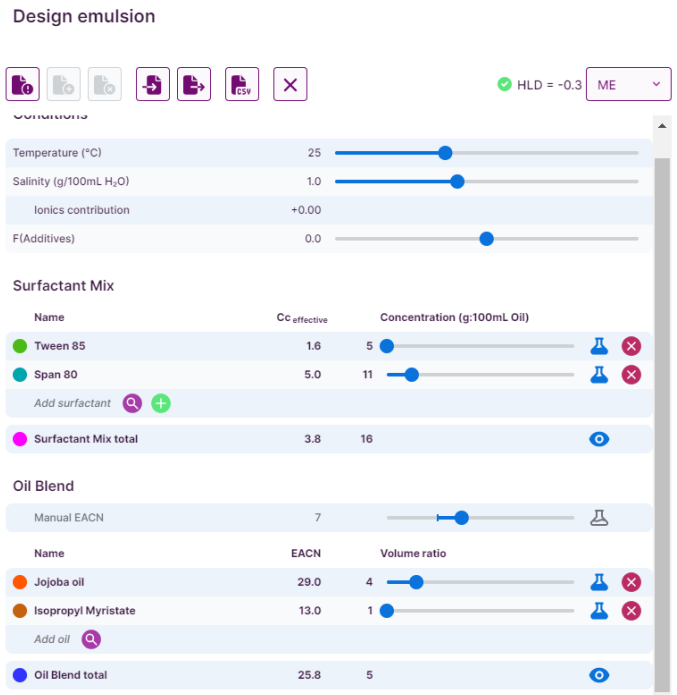
Select datasets: HLD Surfactants PredictID

Search: Enter (part of) name, CAS or I

Select surfactant types: -

Select industries: -

Name	HLD	Surfactant type	Cc
Tween 85	-2.1	Ethoxylate	2.50
Span 80	0.7	Other	5.00
Aerosol IB45	-6.7	Anionic	-2.30
C12-16EO14	-6.6	Ethoxylate	-2.90
C10Glucoside	-6.0	APG	-1.70
Aerosol AY100	-5.9	Anionic	-1.50
APG8-10	-5.8	APG	-1.50
APG12-14	-5.3	APG	-1.00



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Science-based Formulation via webapps

- **Using HSP and HLD maximizes overall performance of formulations**
- **Everyone can join with a license: privately formulate in minutes** via shared and private HSP/HLD datasets, **then experimentally validate**
- **Formulators and ingredient suppliers** guiding the shared datasets; together we implement science-based formulation!
- **Drastically save on:**
  - ✓ Time
  - ✓ Samples
  - ✓ Costs

www.prediapps.com