
DARWIN
Shaping the future of a sustainable, efficient and safe construction industry.
Software powered by
SAALG
GEOMECHANICS

Be more sustainable

Increase efficiency

Make your project safer

Society expects sustainable, efficient and safe cities and infrastructures. Over time, engineers and architects have faced many challenges on how to design and build such projects. They have overcome many of them, however, **ground uncertainty** is still a major issue concerning **over-dimensioning**, **delays** and overall **safety**.

To **minimize ground uncertainty**, SAALG Geomechanics has developed **DAARWIN**, the first and only software that combines and analyses predictive ground models, monitoring data, construction progress, and historical information in a digital space.

DAARWIN enables the connection between all the stakeholders of a project in order to make wiser decisions to plan, deliver and manage more sustainable, efficient and safer projects.

REDUCE OVER-DIMENSIONING

to minimise construction material consumption and CO_2 emissions[1].

[1] Currently the construction industry is responsible for more that 10% of the global CO_2 emissions and this much change.

DIGITALISE

the entire lifecycle of your project to make data-driven decisions easier and faster[2].

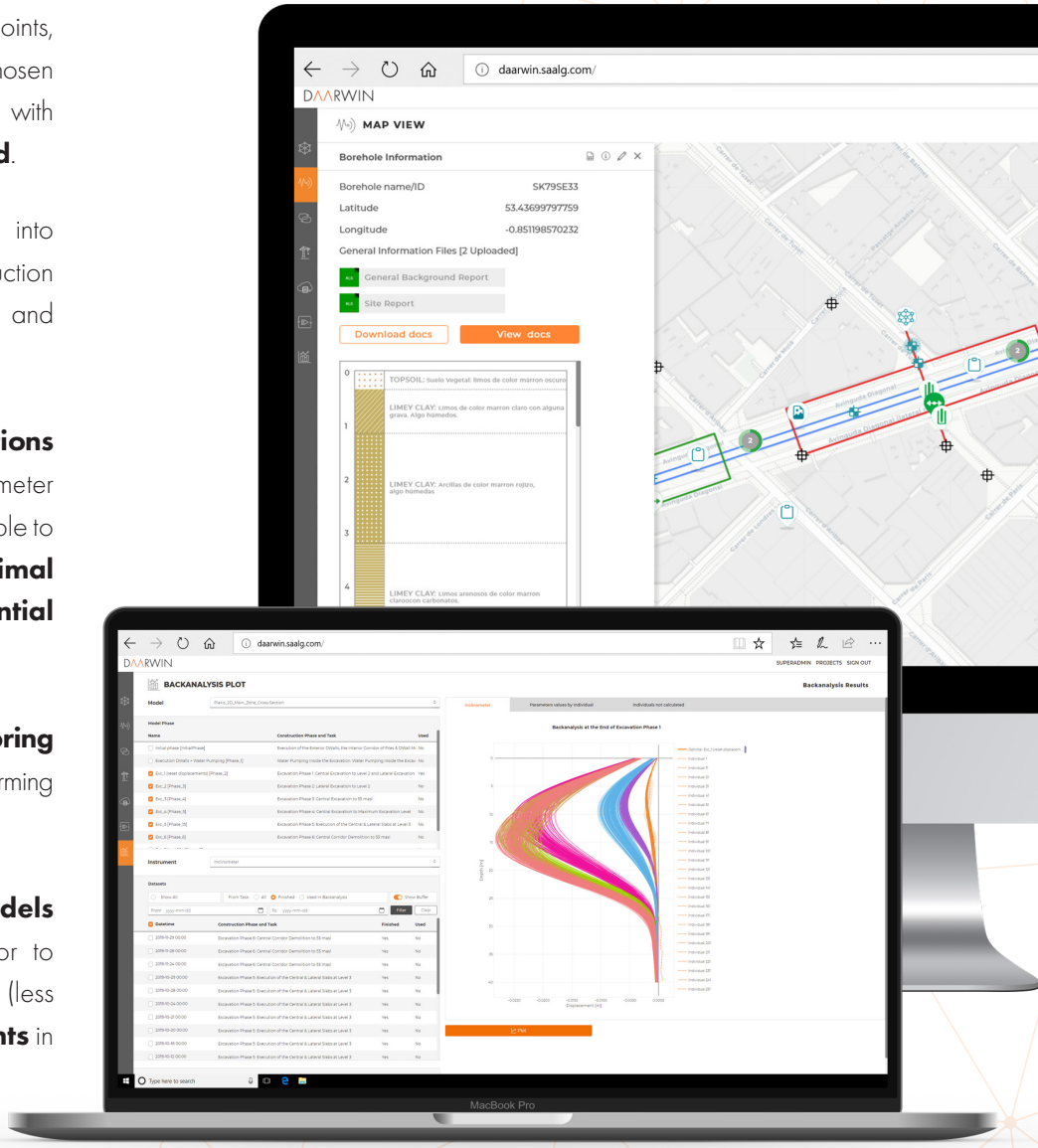
[2] Efficiency and productivity in construction has grown an average of 1% a year over the past two decades, compared with the growth of 2.8% for the total economy.

DETECT INSTABILITIES IN ADVANCE

and prove construction is performing according to the design.

HOW DAARWIN WORKS

- **Select and visualize**, amongst a large number of boreholes and data points, existing geotechnical data within a chosen area to start managing your project with more reliable information of the **ground**.
- **Upload** your project **information** into the platform. Numerical models, construction progress, monitoring data, images and historical information can be uploaded.
- **Analyse** multiple **design options** together with different ground parameter scenarios (from pessimistic, most probable to optimistic) to determine **the most optimal design** option and **the most influential geotechnical parameters**.
- **Compare** your **design** with the **monitoring data** to prove that the construction is performing according to design.
- **Calibrate** your **numerical models** to **predict** the real ground behavior to **minimise construction** material (less CO_2 emissions), **delays** and **accidents** in your projects.



DAARWIN PLANS

FREE PLAN		STANDARD		STANDARD +		CUSTOM	
Includes:		Includes:		Includes:		Includes:	
5 GIP	ground info points	Unlimited	GIP	Unlimited	GIP		Ad hoc
1	user	5	users	15	users		Ad hoc
1	project	3	projects	5	projects		Ad hoc
1	model	10	models	20	models		Ad hoc
1	instrument	50	instruments	250	instruments		Ad hoc
1GB	storage capacity	10 GB	storage capacity	200 GB	storage capacity		Ad hoc

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View our
DAARWIN video:

SAALG GEOMECHANICS

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