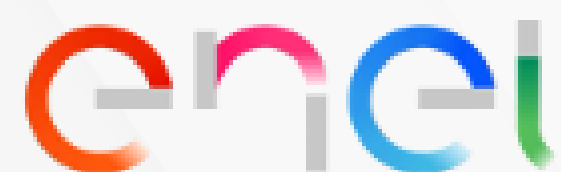


next
ProLed

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FOCUSING ON...
DIGITIZATION
SUPPORTING...
GREEN!





Our Partners

These are some of the partners we have the pleasure to work with.

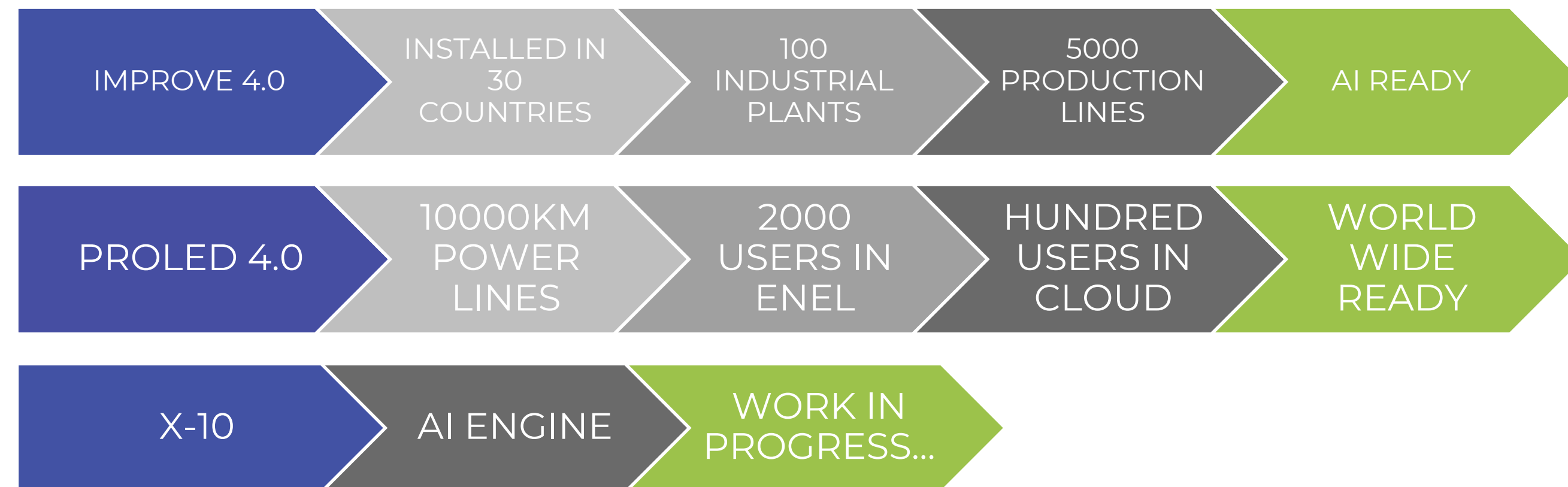




*WHAT WE DO
IS EMPOWER
VARIOUS
APPLICATION
AREAS.*

YOU ARE WELCOME.

These are some of our most important «inventions»



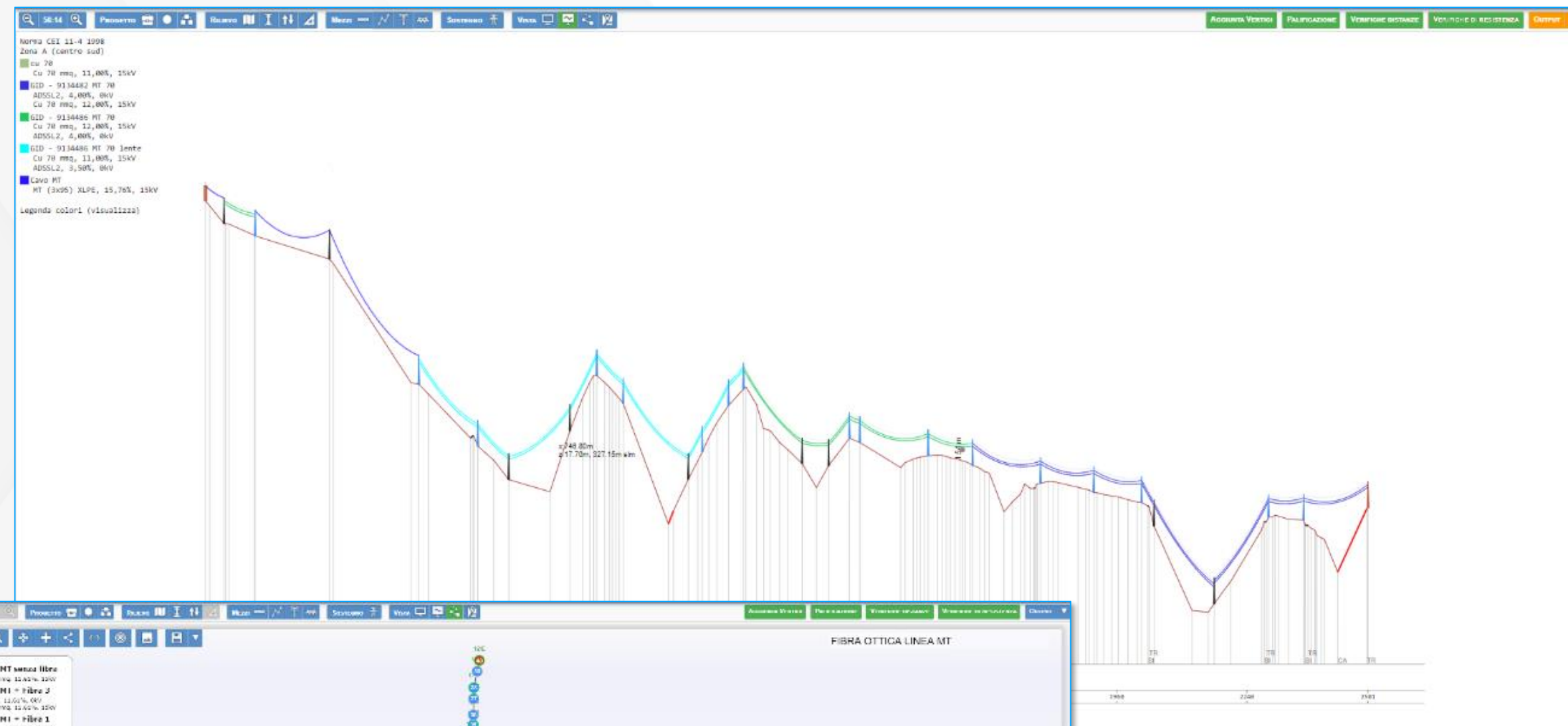
ProLed 3.0

Plan the future!

The screenshot displays the NeXT ProLED software interface. At the top, there is a navigation bar with the 'next' logo and a search bar. Below this is a toolbar with various icons for project management, relief, and visualization. The main workspace shows a 3D aerial view of a rural area with a power line network overlaid. The network consists of several colored segments: a yellow segment for the 'Dorsale Nudo' (backbone), a green segment for the 'Ramo Nudo' (branch), and a blue segment for the 'BT' (low voltage) network. The lines are numbered from 1 to 92. An inset map in the upper center provides a geographical context, showing the area around Jesi, Italy, with labels for 'Acquasanta', 'Ospedale "Carlo Urbani"', 'Arco Clementino', 'Villa Serena', 'Pantiere', 'Ponte Pio', and 'Pian del Medico'. The inset map also shows road networks (SS76, SP17, SP9, SP362) and a red box indicating the area shown in the main 3D view. On the left side, a legend box lists the components: 'Dorsale Nudo' (Cu 70 mmq, 13.40%, 15kV), 'Ramo Nudo' (Cu 35 mmq, 9.80%, 15kV), and 'BT' (BT Al(3x35) XLPE, 11.00%, 1kV). The bottom right corner features a person icon, zoom controls, and a scale bar.

ProLED 3.0

About ProLED



ProLED, acronym for “Design of Distribution Power Lines“, is an IT system created to perform the design and mechanical check of average and low voltage power lines in compliance with **IEC-11-4-1998**, **IEC-11-4-2011** and **IEC EN 50341-2-13** standards.

The designer can use ProLED through Web Browser (Google-Chrome).

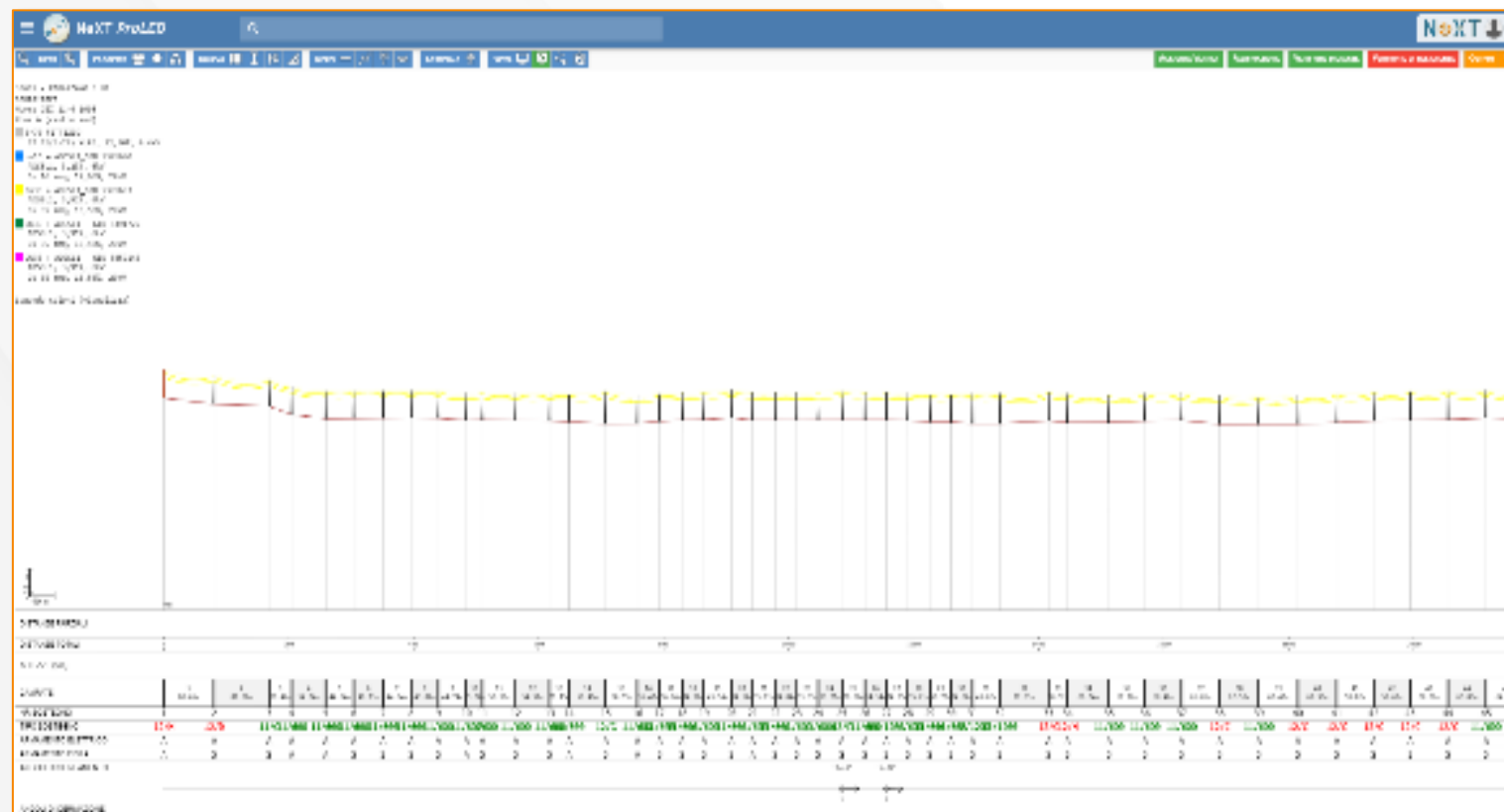
➤ ProLED 3.0

ProLED vision & mission

- Vision
 - Create a tool that can become a **standard** for the design of power lines in Italy
- Mission
 - Create an **easy to use and accessible** tool
- A bit of history...
 - The first version of ProLED was released in 2012
 - 2015: Official release of the 2.0 version
 - 2019: Official release of ProLED 3.0

ProLED 3.0

Main Features



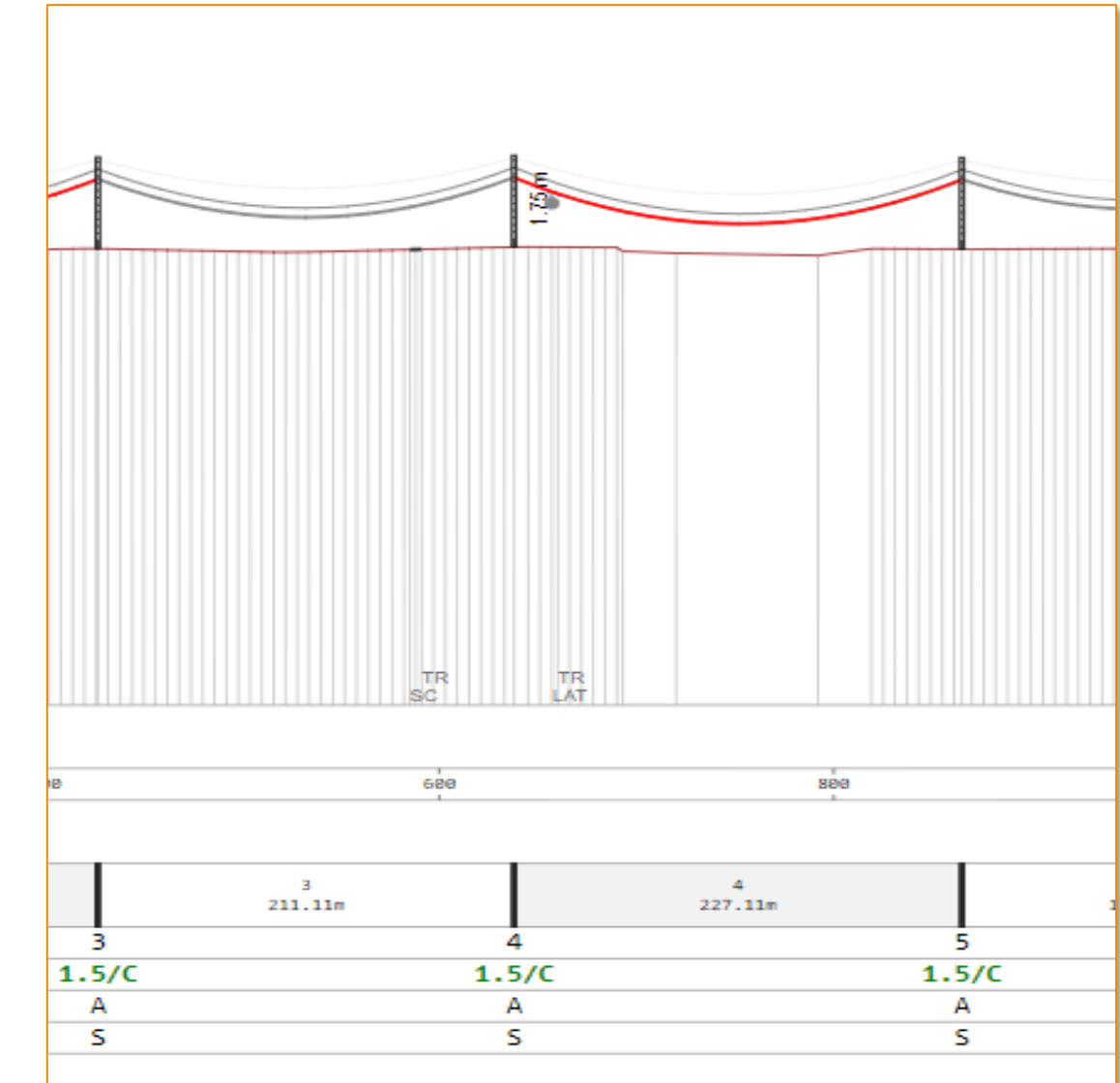
DESIGN

- Powerline design in a CAD-like environment accessible via browser.
- Modification of existing powerlines, creation of new powerlines and evaluation of different project scenarios.



ROUTE

- General view from the top of the powerline, integration with a cadastral map or Google Maps.
- Defining approximate paths from a raster or Google Maps image...

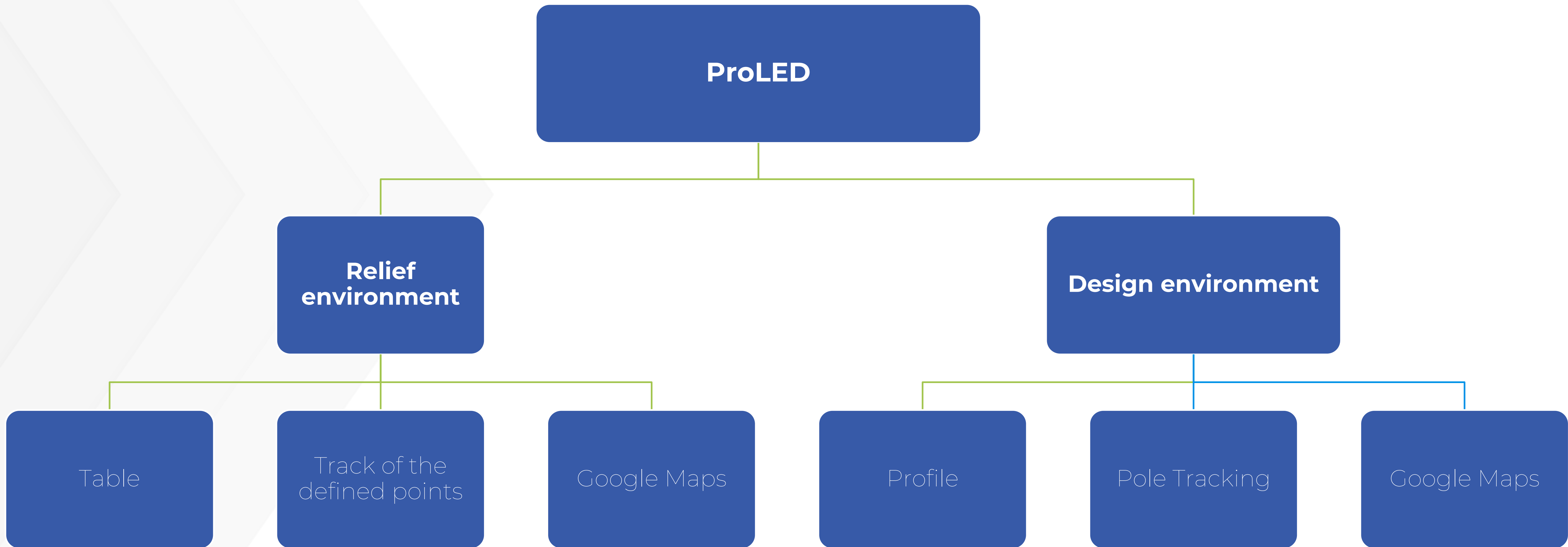


PROFILE

- Detail of the spans to assess compliance with the minimum vertical and horizontal distances.
- Immediate visualization of the violation of the minimum distances, with red marking of the overhead contact line.

ProLED

Main Features

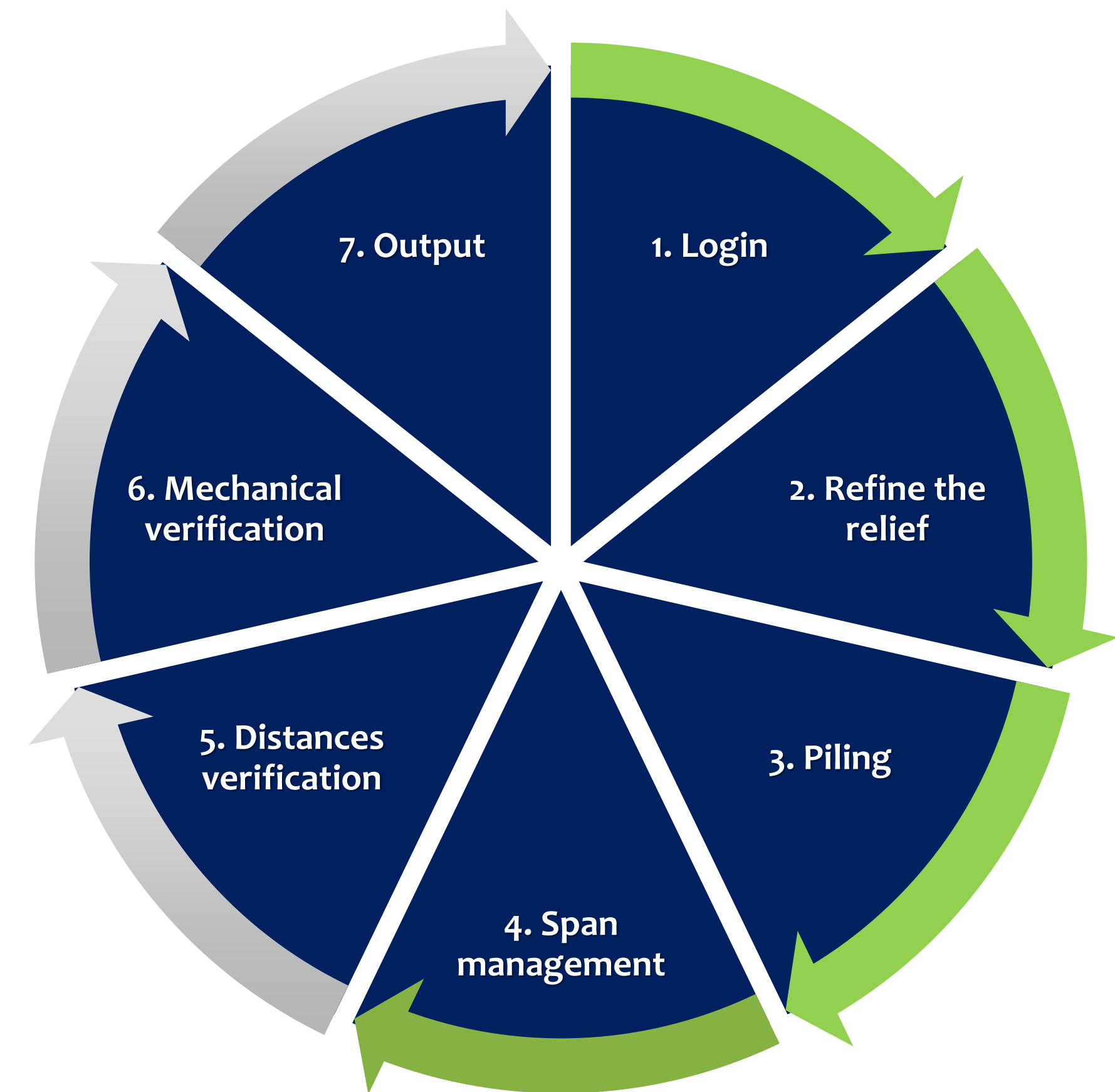


ProLED 3.0

The Work-Flow

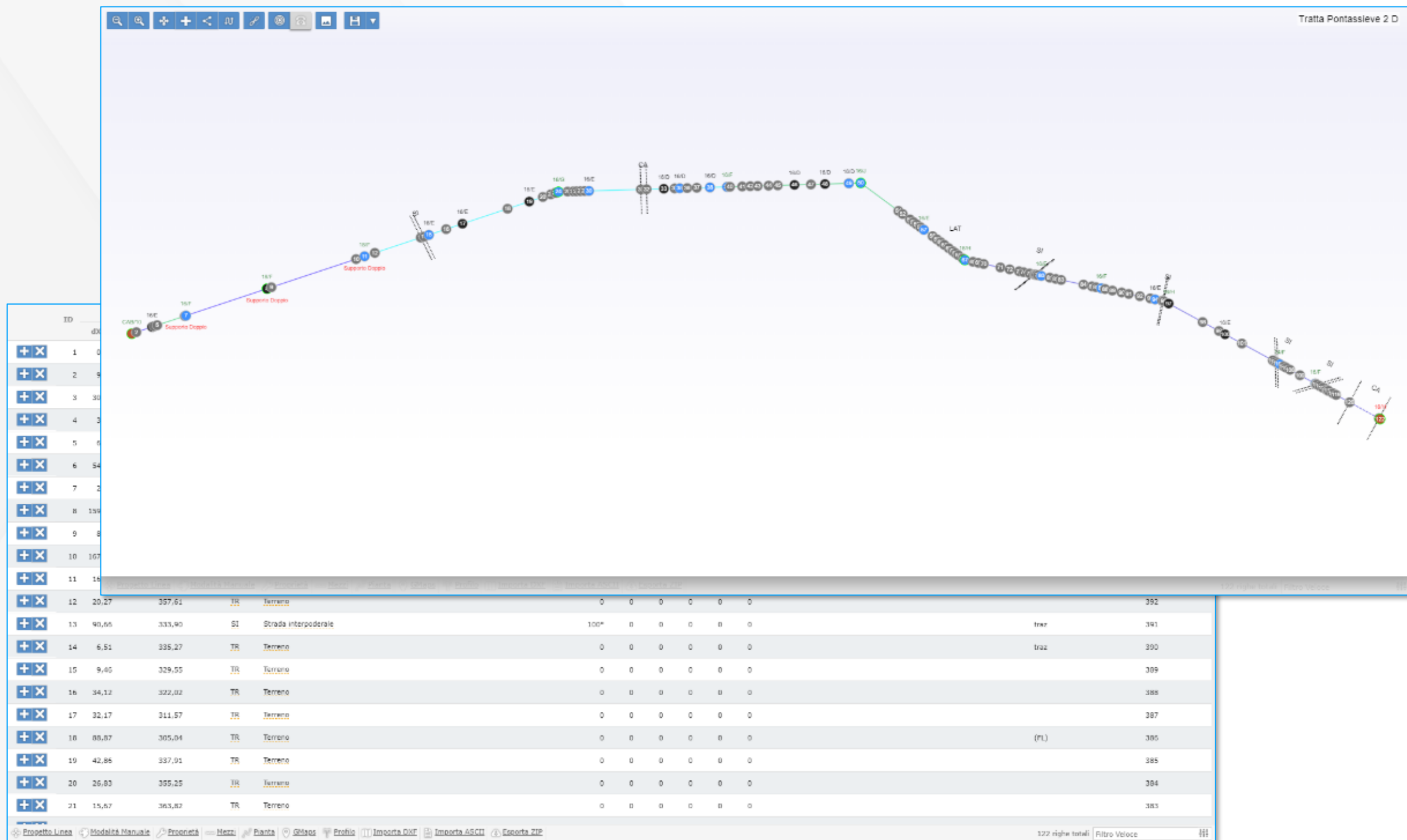
Designer workflow: 7 steps to carry out a project.

Each project is associated with a specific power line.



ProLED 3.0

Let's start designing



New project, data setting and definition of the relief

1. Selection of the CEI standard, of the area, of the proposed support for piling;
2. Preparation of the data of the plan-altimetric relief;
3. Refinement of the relief: identification of supports, placement of crossings, alignment of the vertices
4. We can start designing

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Input: The relief

- The relief can be created through different inputs:
 - **Dxf format:** generated by topographical tools, it contains only the beaten points.
 - **Zip format:** it is possible to import and work on a project already created in ProLED, both in its complete version and the one limited to the definition of the relief
 - **Manual creation:** tapping the points and calibrating them directly from the **Google Maps environment**, (or alternatively an **orthophoto** or **cadastral map** in raster format).

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The design workflow

- **Vertex addition and piling**
- **Configuration of the conductors**
- **Powerline Connection**
- **Verification of vertical and horizontal distances**

- **Generation of outputs:** Picketing table, Tension table, support list, project printing, export (pdf,dxf,png)

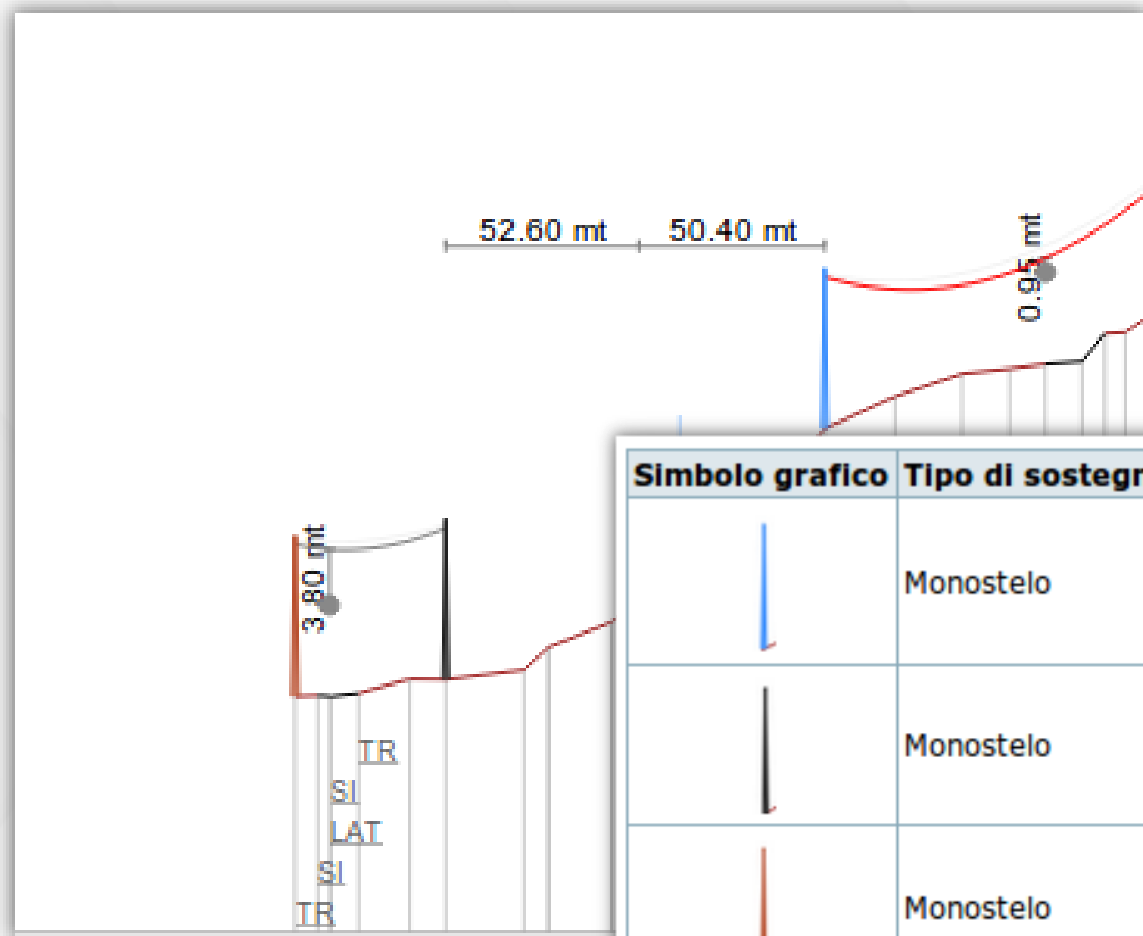
The screenshot displays the 'Configura Mezzi' (Configure Components) window in a software application. The window title is 'Configura Mezzi' and it features a close button (X) in the top right corner. The interface is organized into several sections:

- Configuration Selection:** A row of radio buttons allows selecting between 'Nuova Configurazione' (New Configuration) and several pre-defined configurations: 'GID - 11183475 BT 3X35', 'GID - 11221467 BT 3X35', 'GID - 11221471 BT 3X35', 'GID - 11221472 BT 3X35', and 'GID - 9676334 BT 3X35'. The first 'GID' option is currently selected.
- Nome configurazione *:** A text input field containing 'GID - 11183475 BT 3X35'.
- Colore:** A color selection tool showing a green color swatch.
- Mezzo di conduzione *:** Radio buttons for 'Cavo' (selected) and 'Conduttore Nudo'. A '+ Fibra Ottica' checkbox is checked.
- Informazioni sul primo cavo:** A section with a dropdown menu for 'Tipo' (BT Al(3x35) XLPE), a 'Tensione' field set to '0,4' kV, and a 'Tesatura' field set to '11' with a '% Piena 11,00%' indicator and a message icon.
- Informazioni sul secondo cavo:** A section with a dropdown menu for 'Tipo', a 'Tensione' field, and a 'Tesatura' field with a '% Piena' indicator and a message icon.
- Informazioni sulla fibra ottica nr. 1:** A section with a dropdown menu for 'Tipo' (ADSSL8_BT), a 'Tesatura' field set to '3,3' with a '% Piena 3,30%' indicator, a message icon, and a green edit icon.
- Informazioni sulla fibra ottica nr. 2:** A section with a dropdown menu for 'Tipo' (ADSSL8_BT), a 'Tesatura' field set to '3,3' with a '% Piena 3,30%' indicator, a message icon, a green edit icon, a red delete icon (X), and a blue add icon (+).

At the bottom of the window, there are two buttons: 'Salva Configurazione' (Save Configuration) and 'Elimina Configurazione' (Delete Configuration).

ProLED 3.0

Vertexes and new supports



Simbolo grafico	Tipo di sostegno	Armamento	Capolinea	Descrizione del simbolo
	Monostelo	Sospensione	NO	Triangolo pieno di colore blu
	Monostelo	Amarro	NO	Triangolo pieno di colore nero
	Monostelo	Amarro	SI	Triangolo pieno di colore rosso
	Traliccio	Sospensione	NO	Rettangolo segmentato di colore blu
	Traliccio	Amarro	NO	Rettangolo segmentato di colore nero
	Traliccio	Amarro	SI	Rettangolo segmentato di colore rosso
	Cabina		NO	Rettangolo pieno di colore nero
	Cabina		SI	Rettangolo pieno di colore rosso

ProLED automatically inserts the supports that are vertices and the existing supports, according to the relief file. It allows the designer to add new supports to the powerline and "drag" them to the desired position.

The supports present in ProLED are of the Cab, Monostelo or Truss type, of old and new unification

The colors indicate terminus, amarro, suspension

ProLED 3.0

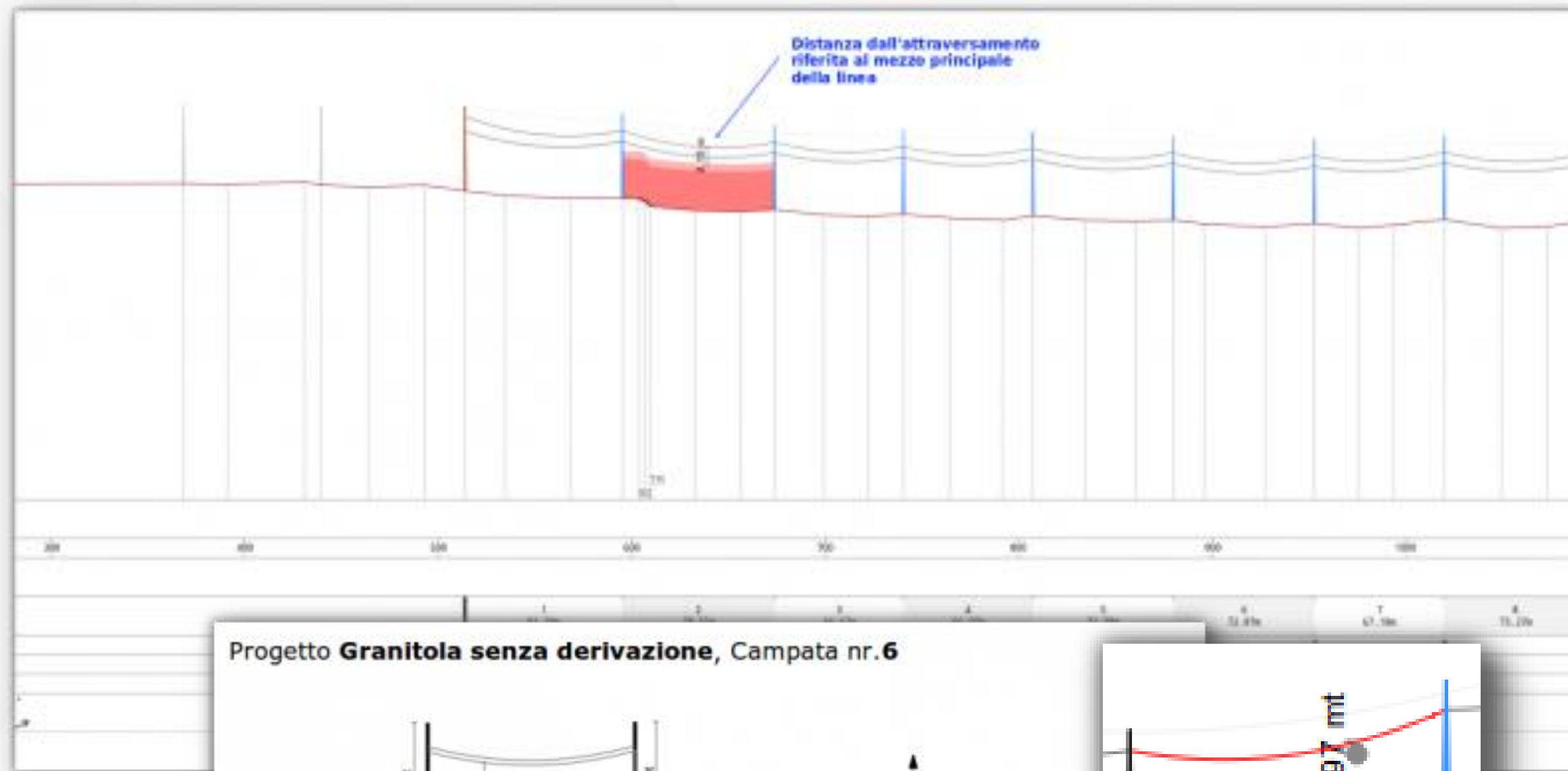
Span Configuration

The image displays two overlapping software windows from the ProLED 3.0 application. The top window, titled 'Configura Mezzi', is used for defining conductor configurations. It features radio buttons for 'Nuova Configurazione' and 'Conduttore nudo' (selected). The 'Nome configurazione' field contains 'Conduttore nudo', and the 'Mezzo di conduzione' is set to 'Conduttore Nudo'. A dropdown menu shows 'Tipo' as 'Cu 35 mmq'. Other fields include 'Tensione' (20 kV) and 'Tesatura' (13,5 % Unificata 13,50%). The bottom window, titled 'Collega Sostegni', is used for connecting supports. It shows a configuration for 'Conduttore nudo' between support '1 - Monostelo con Fondazione' and '11 - Monostelo con Fondazione'. It specifies 'Capolinea (traversa)' for both initial and final supports, with 'Tipo M' for intermediate supports. All 'Distanza Cima Palo' fields are set to 0 meters. A 'Collega' button is visible at the bottom.

Definition of the means of the powerline and realization of the connections between the supports present. It is possible to connect the supports using different means and of different classes.

ProLED 3.0

Distances verification

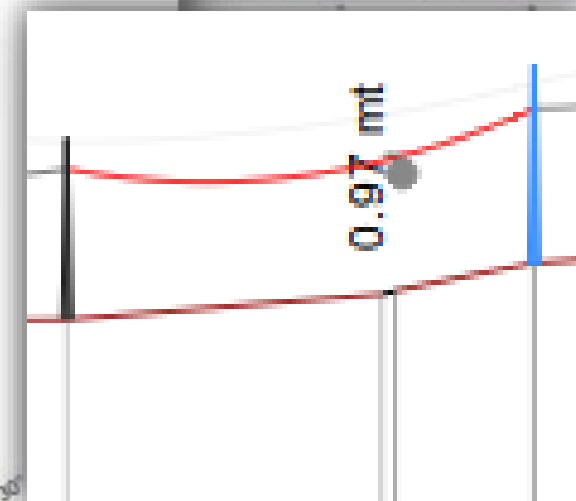


Progetto **Granitola senza derivazione**, Campata nr.6

Altezza 1.500
Lunghezza 1.2000

DISTANZE	1	2	3
QUOTE	27.4	27.3	27.5
CAMPATA	0	82.64 mt	7

Stampa Chiudi



Positioning of the amari, calculation of the overhead lines in maximum deflection and maximum parameter, verification of vertical distances from all crossings, verification of horizontal distances, verification of intersection with TLC lines.

ProLED 3.0

Performance Calculation

Battuta nr. 11
Monostelo nr. 4 a 217.85m (slm) angolo 15.55°
Campata sx 45.86m, dx 48.19m
Tipo D da 7.83m Amarro
Fondazione M1 Interrata Normale
Punto Battuto TR: Terreno
Sostegno esistente 9/D

1 2 3 4 5 6 7

CAB/D9/A 9/D 9/A 9ZAB/8

A A S A S S A

A A A A S S A

-5.23° 15.55° 2.65°

1 2 3

58.88°

Progetto Anagni

Sostegno Monostelo		Posizione					
Nr	Armamento	H (m)	Prestazione	K	X	Y	Z
6	Sospensione	12	D	-0.00	452.242	762.105	13.668

Informazioni generali sul sostegno

Schema mensola

Punti di attacco

Campata Sinistra 72.38m, Leq 71.11m
 ACSR 150 mmq

Stato	T.Posa (°C)	Tiri (daN)			
		Derivato	Base	Assiale	Ass.Ammis.
MFA	15	288	582		
MFA	15	902	582		
MSA	15	1115	582	1116	1878

Campata Destra 72.97m, Leq 71.11m
 ACSR 150 mmq

Stato	T.Posa (°C)	Tiri (daN)			
		Derivato	Base	Assiale	Ass.Ammis.
MFA	15	288	582		
MFA	15	902	582		
MSA	15	1115	582	1116	1878

CavoFO (campata < 200m)

Stato	T.Posa (°C)	Tiri (daN)			
		Derivato	Base	Assiale	Ass.Ammis.
MFA	0	154	190		
MFA	15	162	190		
MFA	40	179	190		
MFA	0	194	190		
MFA	15	207	190		
MFA	40	230	190		
MSA	0	343	190	344	800
MSA	15	353	190	354	800
MSA	40	370	190	371	800
MSB	0	392	190	393	800
MSB	15	402	190	403	800
MSB	40	420	190	421	800

Vista delle campate sx e dx

LINEAMENTO: 0.31°

Carichi Ipotesi I-III (daN)

Stato	P	T	L	Teq	Teq amm.	% UDL	Carichi Ipotesi II-IV (daN)			
							P	T	L	Teq
MSA	44	103	0	330	333	99%	38	72	1115	1081

Tabelle dei tiri derivati di tutti i mezzi di conduzione/dati

Azioni sul sostegno, ipotesi I-III e II-IV

Calculation of the actions of the powerline and the environment on the support, verification of the foundation, verification of the brackets and supports, control of the breaking load, calculation of pulls and laying arrows.

1	2	3	4	5	6	7	8
85.44mt	88.90mt	80.73mt	102.81mt	92.92mt	82.64mt	54.52mt	51.74mt
T2C	T2B	T1B	T2F	T2B	T2B	T2B	T2B
A	S	S	A	S	S	S	A

Traliccio Serie T Altezza T1 prestazione B

Monostelo da 12mt. prestazione F

ProLED 3.0

Output

Verifiche di resistenza OUTPUT

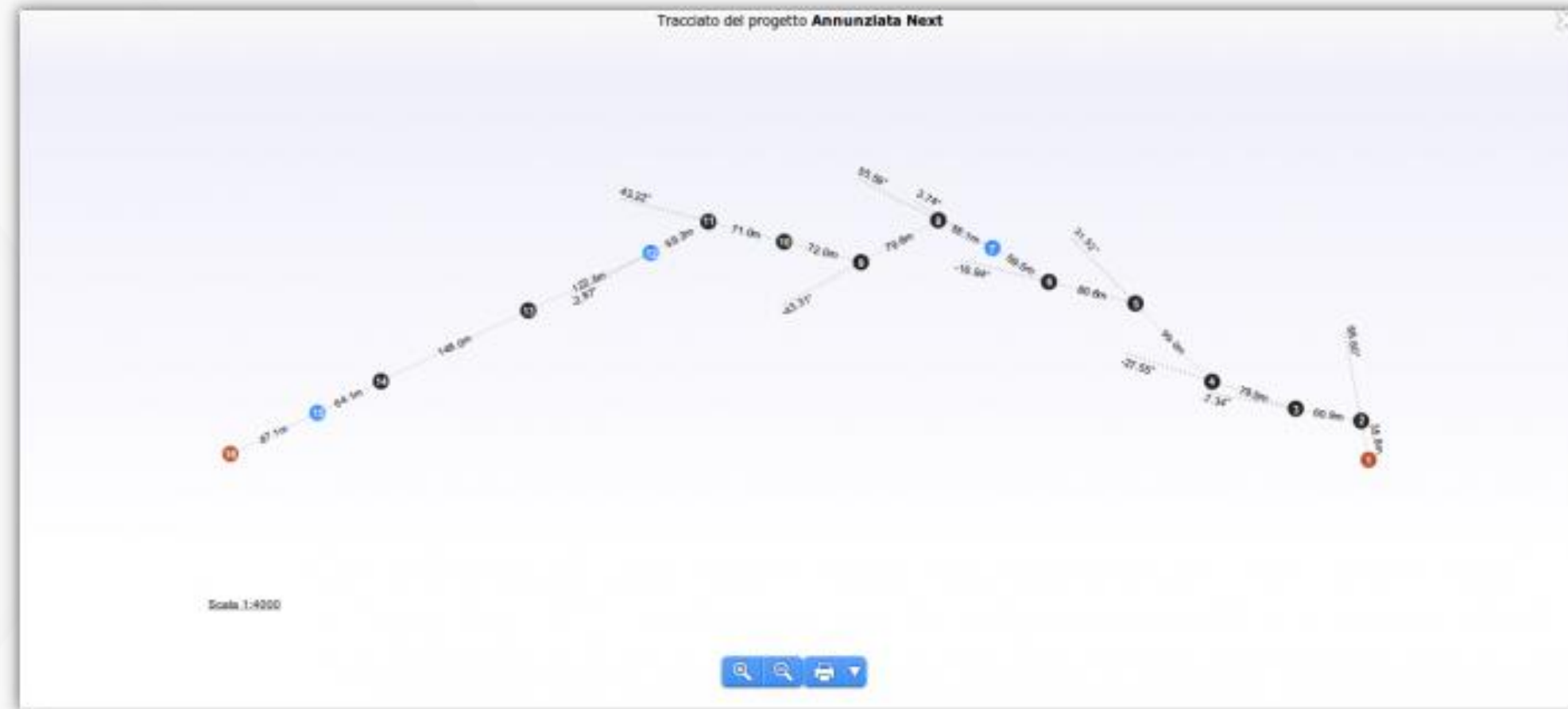
Tabelle di Picchettazione
ACSR 150 mmq
CavoFO(campata<200m)

Tabelle di Tesatura
ACSR 150 mmq
CavoFO(campata<200m)

Tracciato

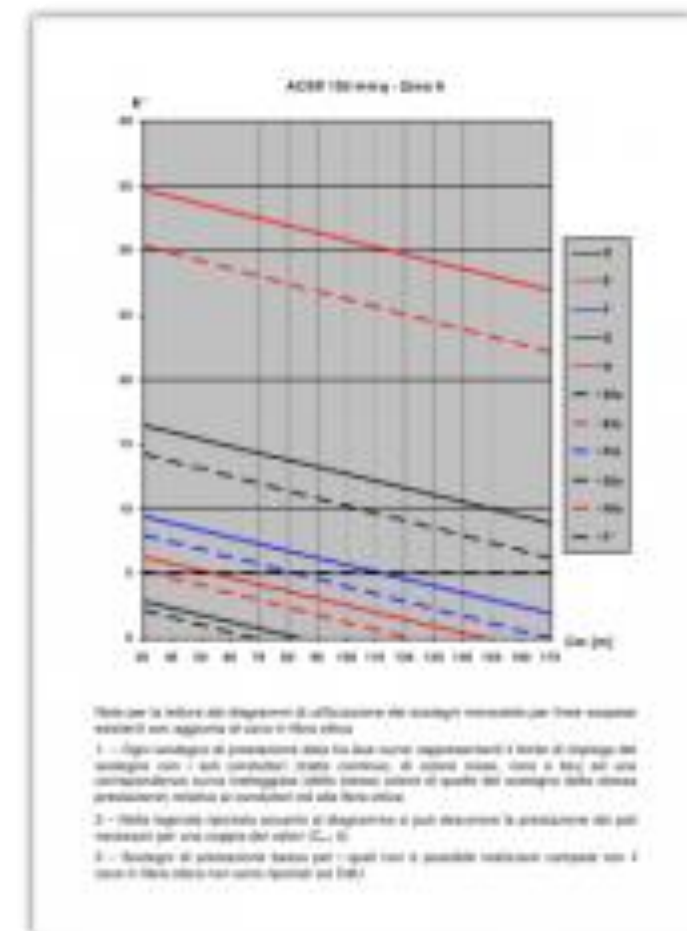
Esporta in SVG
Esporta in PDF
Esporta in DXF
Esporta in JPG
Esporta in PNG

Diagramma di Utilizzazione



Picketing table, tension table and support pull, development of the map, dxf export, diagrams usage, shape file export.

ENEL DISTRIBUZIONE				TABELLA DI PICCHETTAZIONE (REV. 15/05/2013)	
Tratto:		N. 3		LINEA AEREA H.T.	GRANTOLA CON TRALICCI IMPORT SOSTEGNI ESISTENTE
MATERIALI IMPIEGATI:		CONDUTTORI DI TIPO		Aluminio anodato 150 mmq	Tiro al posto 404 0.20%
CARATTERISTICHE CAMPATE		DATI RELATIVI ALLA TRALICIA		STRUTTURE DI SOSTEGNO	
Misure campate		Metri conduttori		SOGGI C/4	
CAMPATE	LUNGEREZZA CONDUTTORE (m)	DIFFERENZA ALTEZZE (m)	DIFFERENZA ANGOLI (°)	PICCHETTO	CAMPATA MEDIA (m)
1-2	130.00	0.13	74.0	4	56.00
2-3	130.00	0.13	74.0	4	56.00
3-4	130.00	0.13	74.0	4	56.00
TOT. 390.00		180.00		180.00	



NeXT ProLED

4x25 + ADSSL2_BT
ADSSL2_BT 2.45% OKV
WT 41(2x10) 3LPG, 4.00%, 0.4kV

4X16 + ADSSL2_BT
ADSSL2_BT 2.45% OKV
WT 41(2x10) 3LPG, 4.00%, 0.4kV

8X16 + ADSSL2_BT
Cu 16 mmq 12.60%, 0.4kV
ADSSL2_BT, 2.45%, OKV

DXF
SHAPE
JPEG

Tiro base 437 daN								Tiro base 437 daN									
Tiri di posa alle temperature di posa (daN)								Frece di posa alle temperature di posa (m)									
Seq.	0° C	5° C	10° C	15° C	20° C	25° C	30° C	Campate	Seq.	L.	0° C	5° C	10° C	15° C	20° C	25° C	30° C
1-2	85.22	568	517	474	437	405	378	355	1-2	85.44	0.81	0.89	0.98	1.06	1.14	1.22	1.30
2-3	88.84	561	513	472	437	407	381	358	2-3	85.22	0.88	0.97	1.06	1.15	1.24	1.32	1.41
3-4	51.74	660	577	502	437	382	338	302	3-4	80.73	0.73	0.80	0.87	0.94	1.02	1.09	1.16
4-5									4-5	102.81	1.19	1.30	1.42	1.53	1.65	1.76	1.87
5-6									5-6	92.92	0.97	1.07	1.16	1.25	1.34	1.44	1.53
6-7									6-7	82.64	0.77	0.84	0.92	0.99	1.06	1.14	1.21
7-8									7-8	54.52	0.34	0.37	0.40	0.43	0.46	0.49	0.53
8-9									8-9	51.74	0.26	0.29	0.34	0.39	0.44	0.50	0.56

**THANKS FOR THE
ATTENTION**



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