

METAL THEFT

WEBINAR



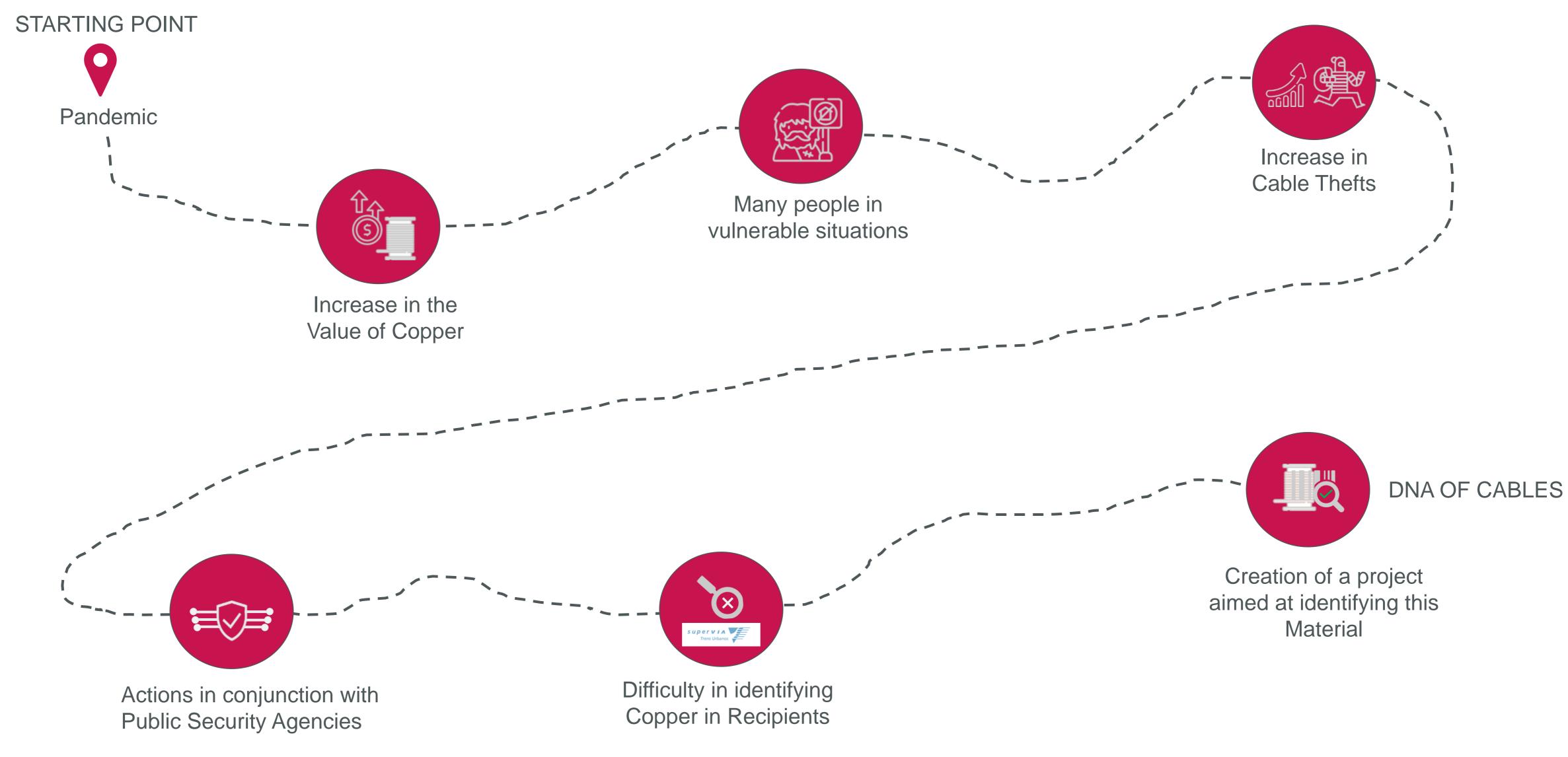
UIC LARA SECURITY TASKFORCE 19 March 2025

Held online

Marcus Glauco de Araújo Almeida

DNA OF CABLES

JUSTIFICATIONS





2

OBJECTIVES





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Theft	
and Identification	
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of Evidence Collection and Recovery	
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and Infrastructure Protection	
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Compliance and Quality Assurance	

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ACTIONS



Traceability

Evidence and Investigation

Registration at a Notary's Office

Training of organic staff

Training of the Technical Staff (Experts) of the Civil Police of Rio de Janeiro

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Material preparation

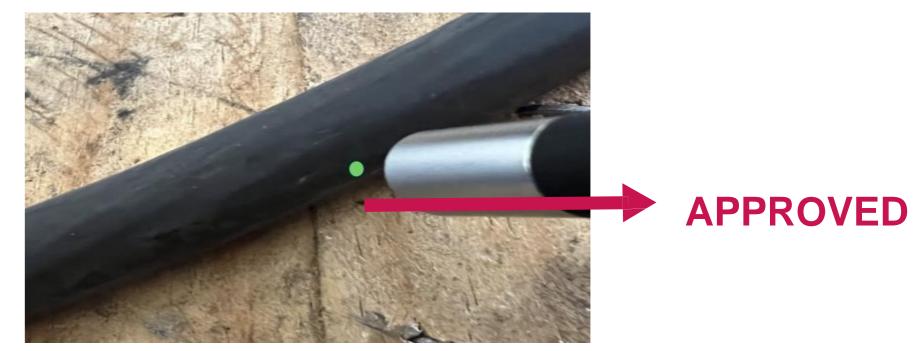
Application in copper cables







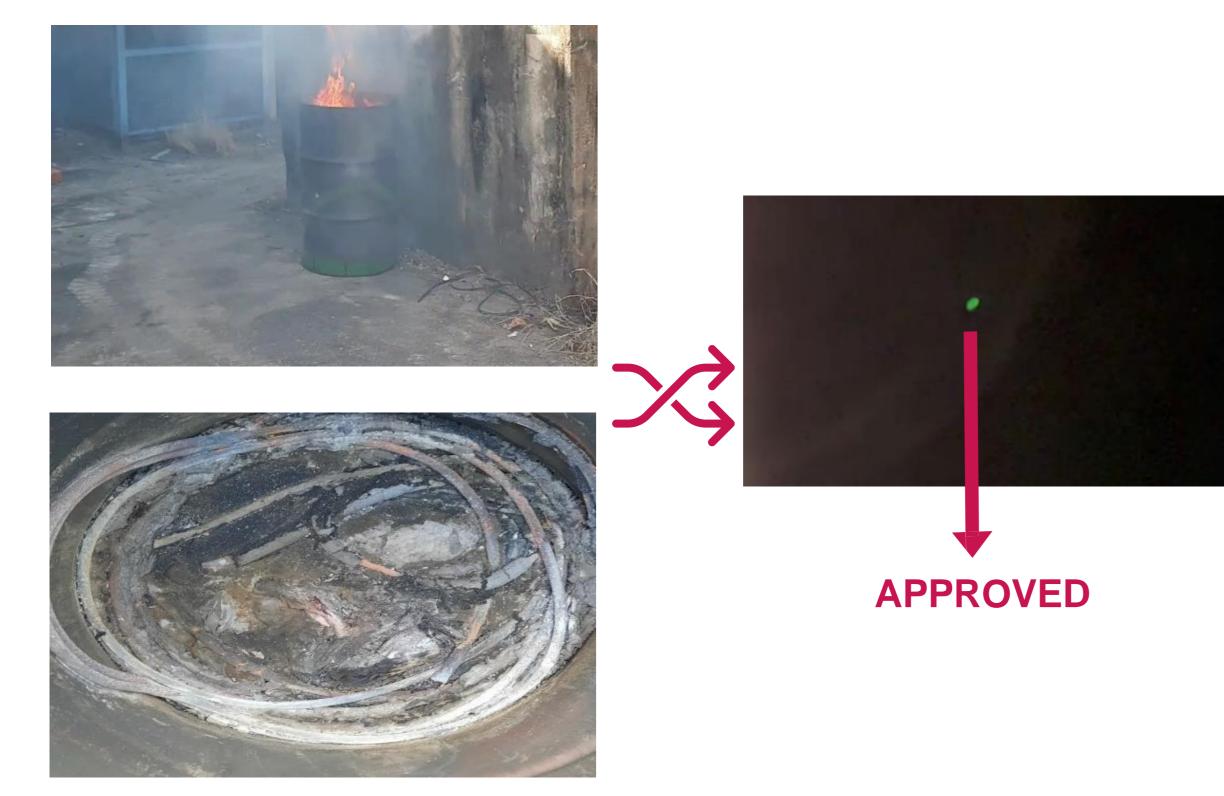
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Testing of cables being subjected to high temperature



Application of technology in cables



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Expected Results/Obtained



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ion C	Guaranteed Authenticity and Quality	Ease of Legal Actions



Potential Impacts

Security and Traceability

Reference Indicators:

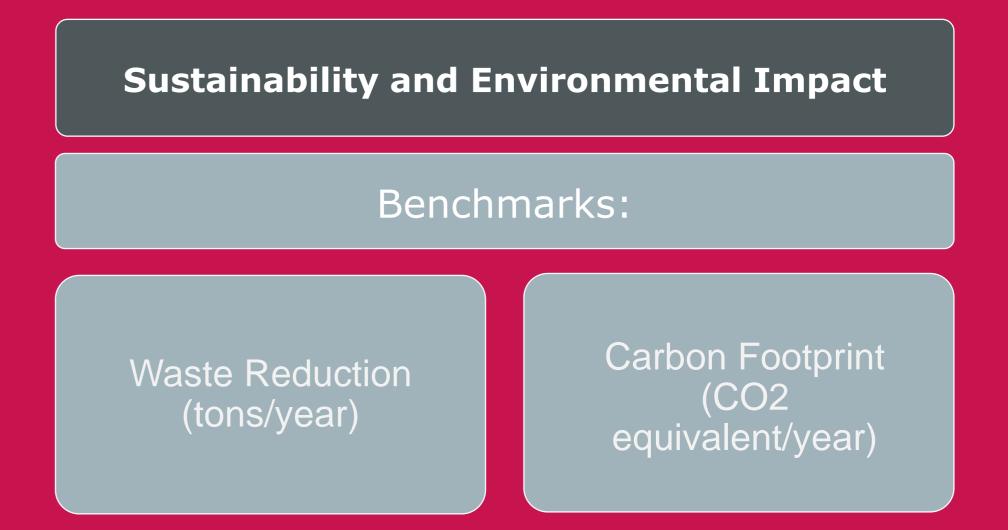
Number of Thefts/Recoveries (incidents/year)

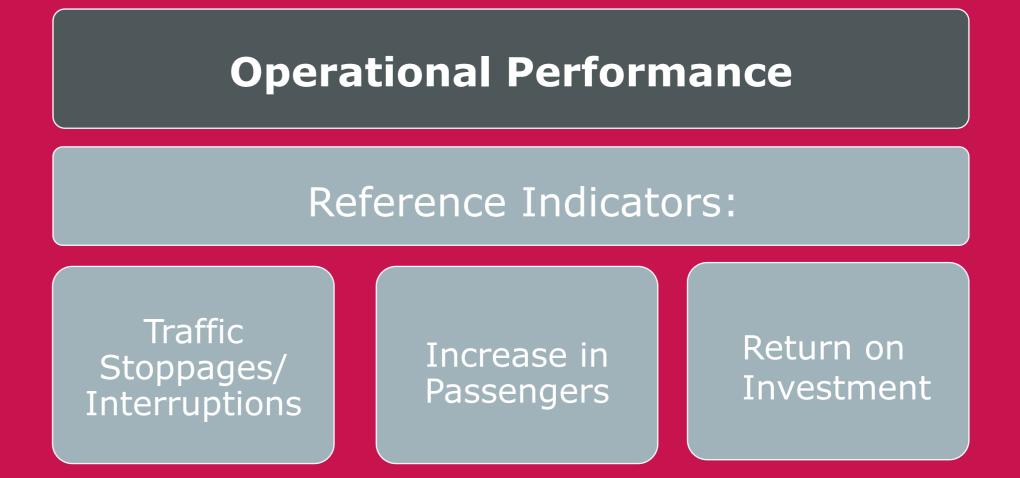
Maintenance/Replacement Costs

Reference Indicators:

Production Cost (USD/m) Maintenance Cost (USD/m) Return on Investment (ROI) Maintenance Time (hours/year)

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Ongoing Actions







Disclosure and Marketing Grounding cable marking

Incident analysis

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Identification of the criminal hotspot

Police Operations Applications of nanotechnology in other company assets



Thank you for your attention











