

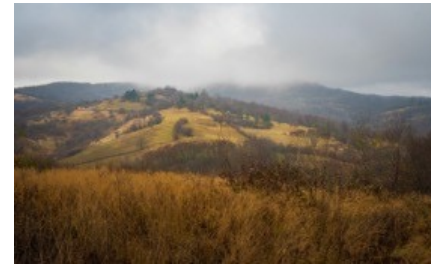


## DPM's experience in improving environmental impact through innovation: Chelopech Mine

### XVI Annual Mining Meeting

October 6<sup>st</sup>, 2021

Quito, Ecuador



# • Environmental Stewardship supported by Innovation and Technology

Reduction in fresh water use by 71% per tonne of ore mined

Fresh water use, 2004

**1,31 m<sup>3</sup> / tonne ore mined**



-71%

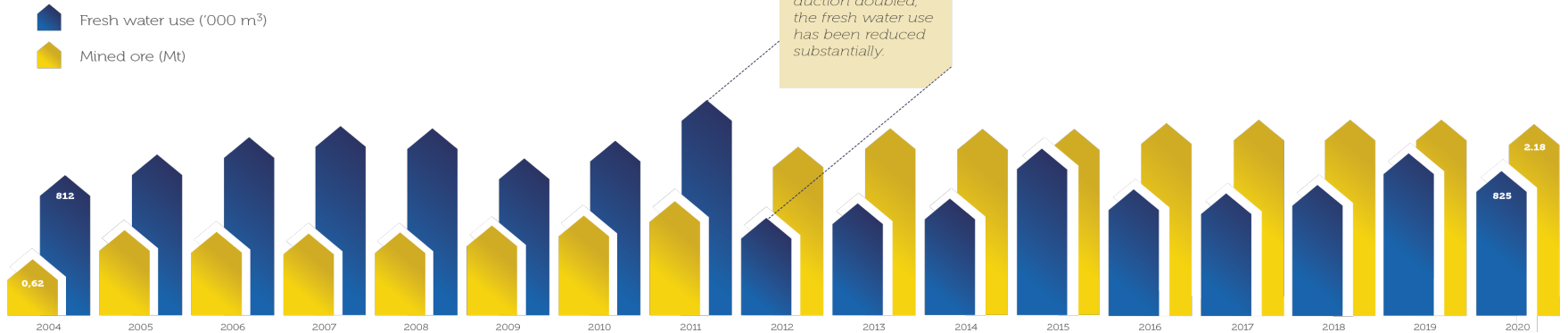
Fresh water use, 2020

**0,38 m<sup>3</sup> / tonne ore mined**



## 2011 - 2012

*The water cycle is closed. While production doubled, the fresh water use has been reduced substantially.*



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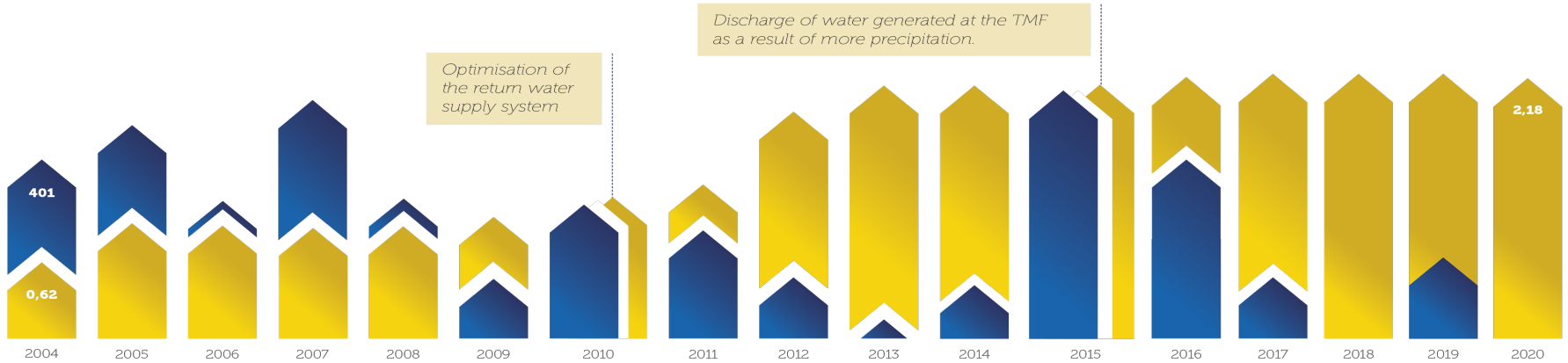
## Discharge of decant waters from the TMF into the environment

Decant discharge, 2004  
**0,65 m<sup>3</sup> / tonne ore mined**





-100%

Decant discharge, 2020  
**0,00 m<sup>3</sup> / tonne ore mined**



Zero discharge  
in 2013

 Discharges from the TMF ('000 m<sup>3</sup>)  
 Mined ore (Mt)

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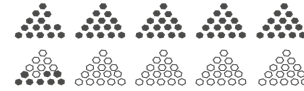
Reduction in the carbon footprint per tonne of ore by 42% between 2009 and 2014



Carbon emissions, 2009  
**94.9 kg / tonne ore mined**

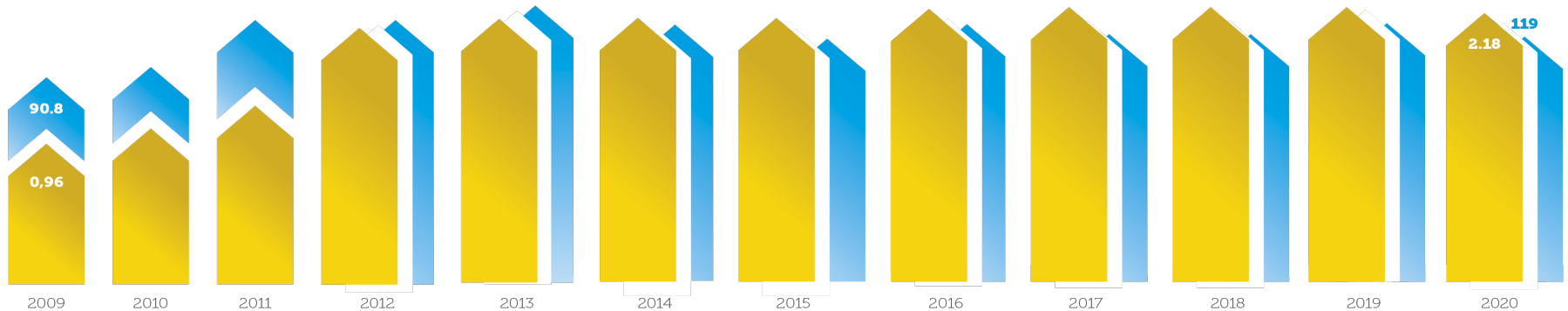


-42%

Carbon emissions, 2020  
**54.6 kg / tonne ore mined**



 Total carbon emissions (kt CO<sub>2</sub>)  
 Mined ore (Mt)



# • Environmental Stewardship supported by Innovation and Technology

Reduction in overall fuel consumption per tonne of ore by 32% while production has tripled

Fuel consumption, 2004

**1,88 L / tonne ore mined**



-32%

Fuel consumption, 2020

**1,29 L / tonne ore mined**



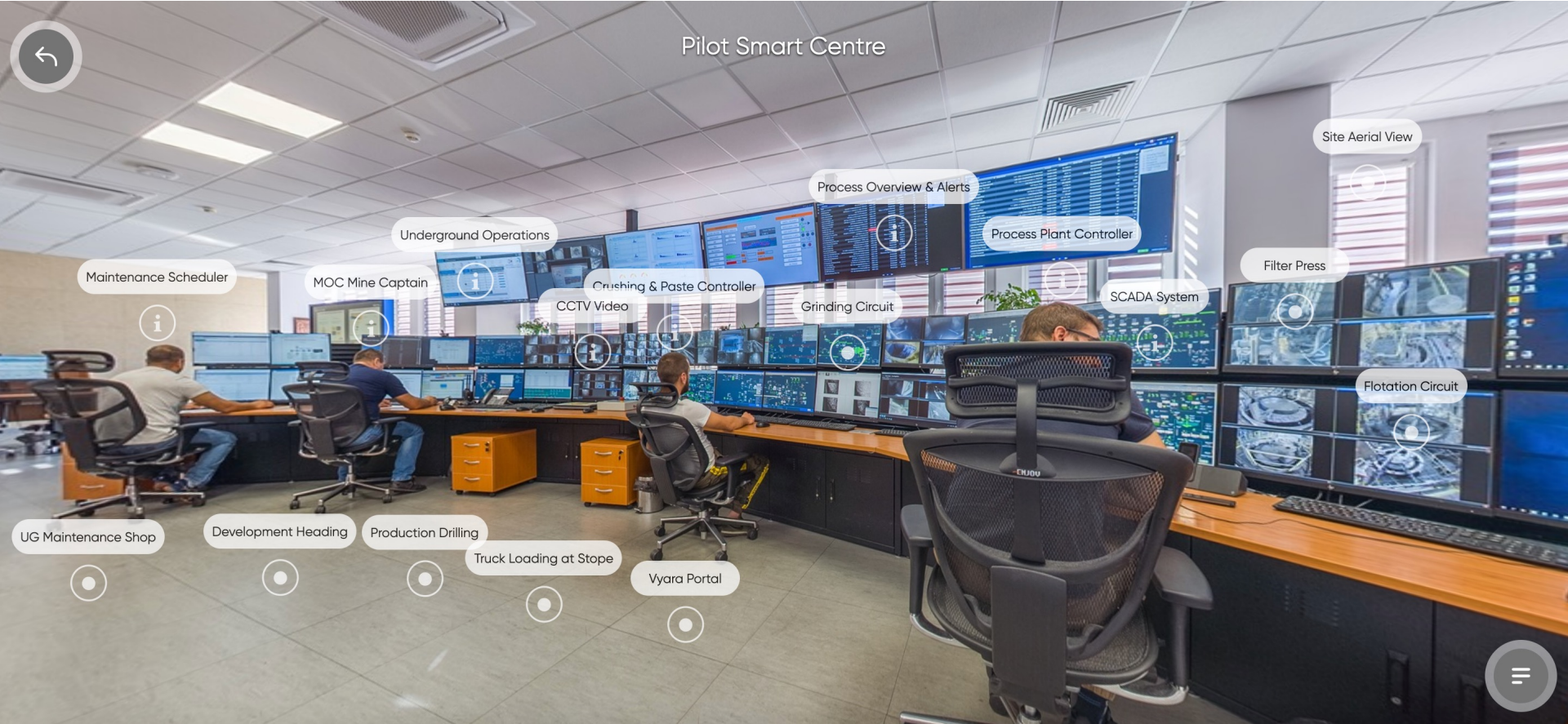
*A steady trend of lower fuel consumption levels has been observed since the start of the underground crusher*

Fuel consumption (ML)

Mined ore (Mt)



# • Thank you for your attention!





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