



SUHANGON KAIVOSHANKE

Suurhankeinfo-TEAMS

4.3.2021

Suhanko | Arctic Platinum Oy



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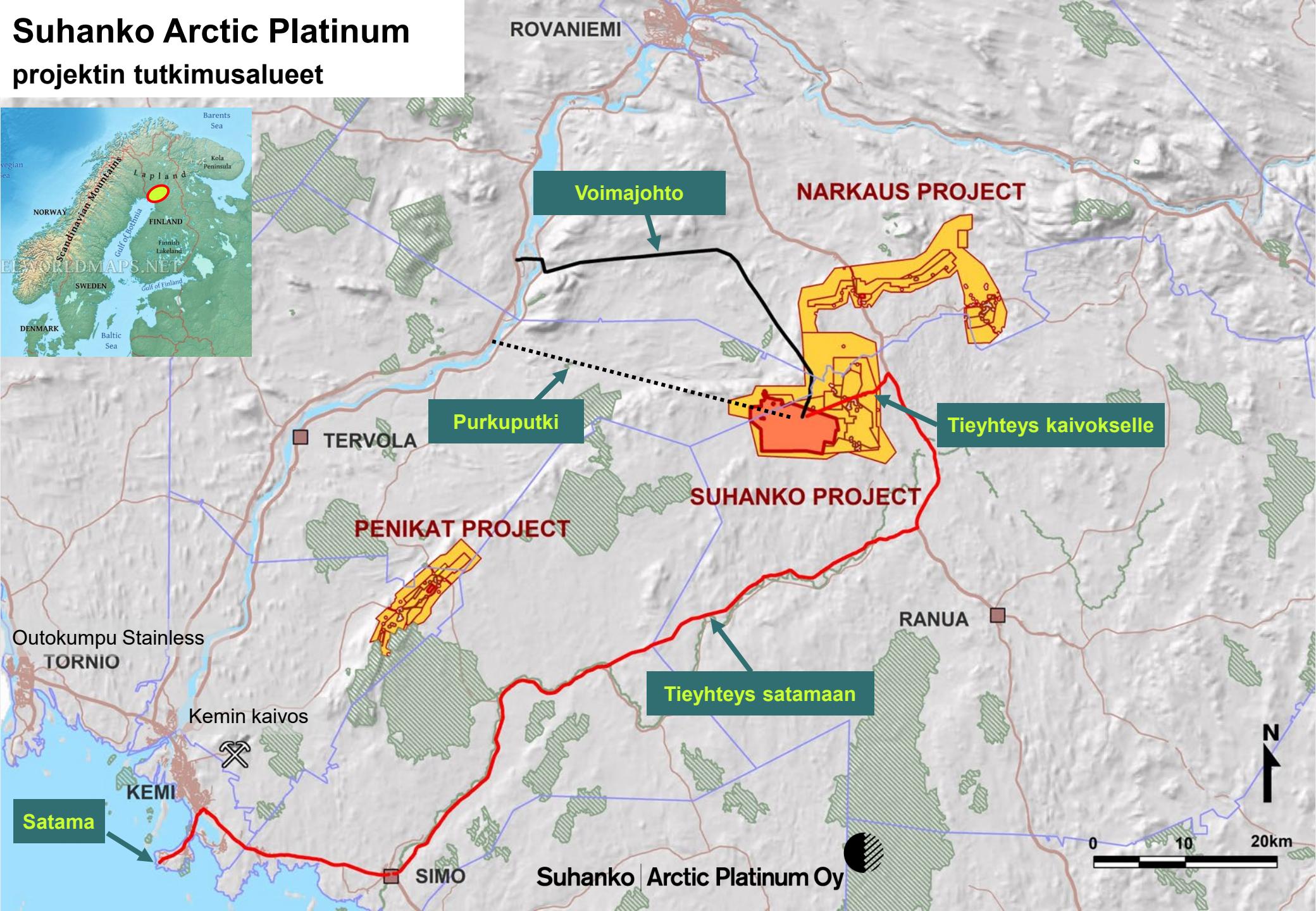
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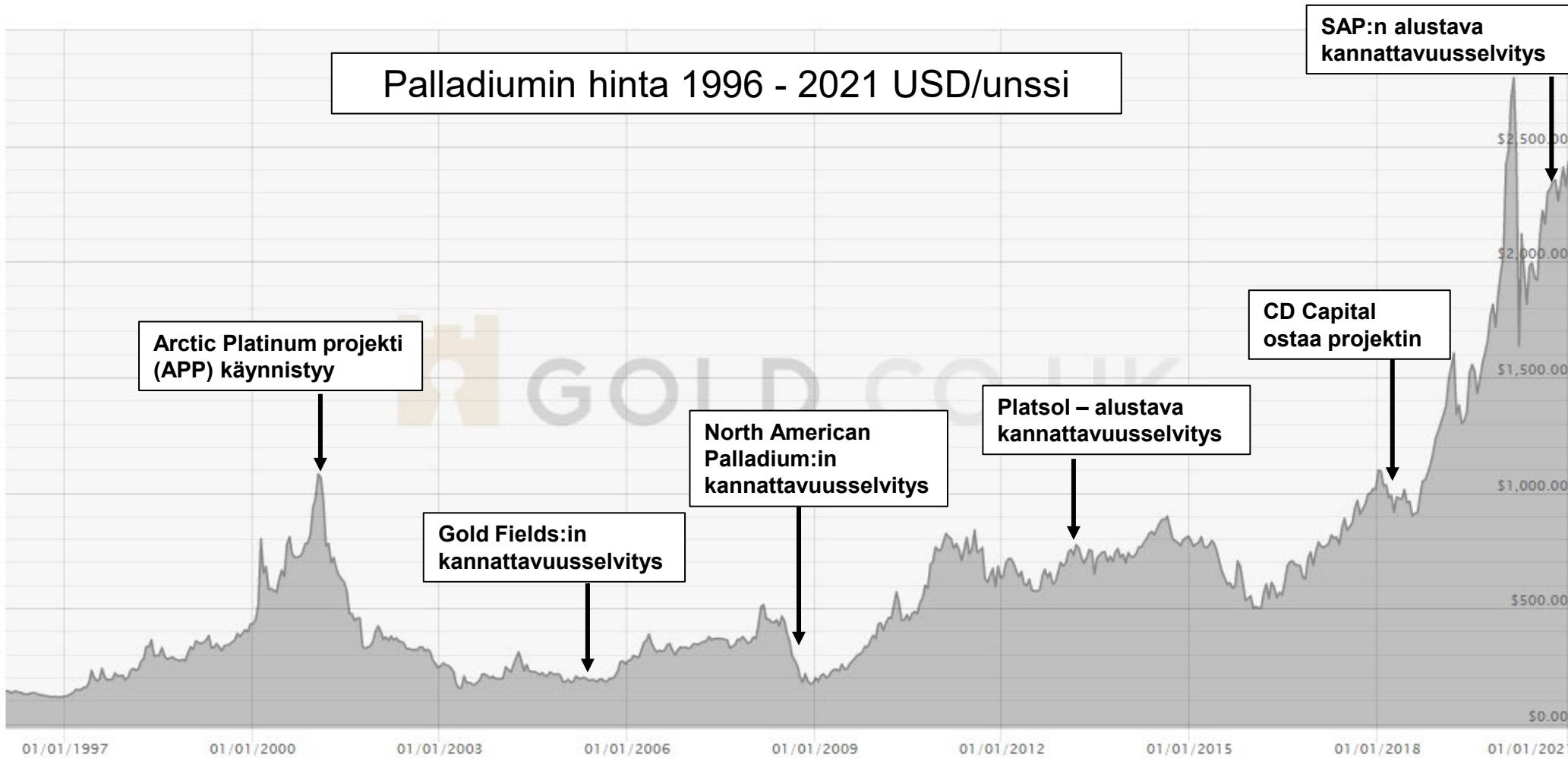
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Suhanko Arctic Platinum projektiin tutkimusalueet

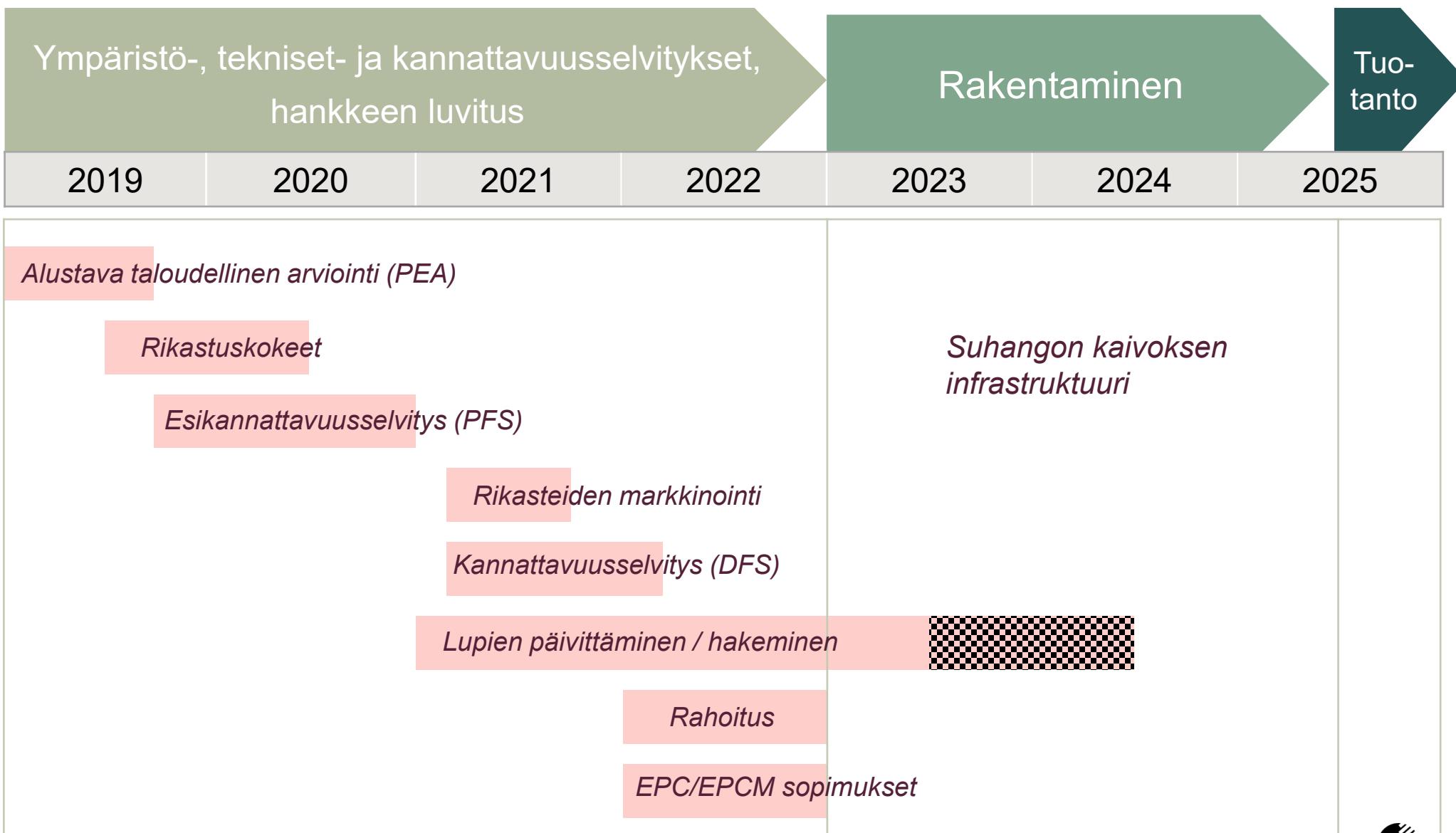


Suhanko Arctic Platinum Oy

Projektiin historiaa



Suhangon kaivoshankkeen tavoiteaikataulu



Kaivoshanke ja sen hallinnolliset menettelyt

Toiminnan edellytykset	Suhangon kaivoshiiri	
Avolouhittavat mineraalivarannot	Kontijarvi, Ahmavaara & Suhanko Pohjoinen	350 Mt
Tuotteet	Palladium (80% malmin arvosta), platina, kupari, nikkeli ja kulta	
Kaivostoiminnan kesto	+ 20 vuotta	
Maanomistus	89% kaivoshiiristä yhtiön maata	

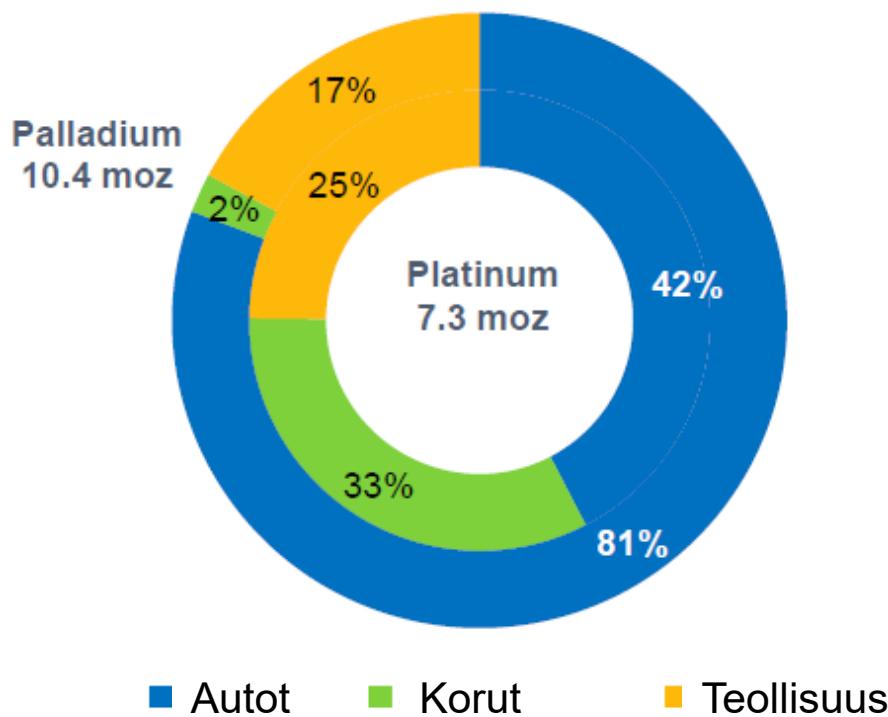
Kaavoitus		
Maakuntakaava	<input checked="" type="checkbox"/> Voimassa	Suhangon laajennettu hankealue
Yleiskaava	<input checked="" type="checkbox"/> Voimassa	Suhangon kaivoshiirillä, laajennetaan
Asemakaava	<input checked="" type="checkbox"/> Voimassa	Rikastamoalueen rakenteet
YVA	<input checked="" type="checkbox"/> Valmistunut	Hyväksytty 2014
Ympäristölupa	<input checked="" type="checkbox"/> Myönnetty	Tullaan päivittämään 2021-2022
Purkuputki	<input type="checkbox"/> YVA vuoden 2021 aikana	
Vesitalouslupa	<input checked="" type="checkbox"/> Myönnetty	
Natura 2000	<input checked="" type="checkbox"/> Valmistunut	
Kaivoshiiri	<input checked="" type="checkbox"/> Myönnetty	Voimassa I/2023 saakka
Pato-, kemikaali-, rakennusluvat	Suunnitelmat valmiiksi	Haku kannattavuusselvityksen jälkeen
Tielupa	<input type="checkbox"/> Rauennut	Lupaprosessi käynnissä

Kysynnän näkymät

Palladium ja platinan menekki on kasvava

Kysynnän jakautuminen loppukäyttäjän mukaan

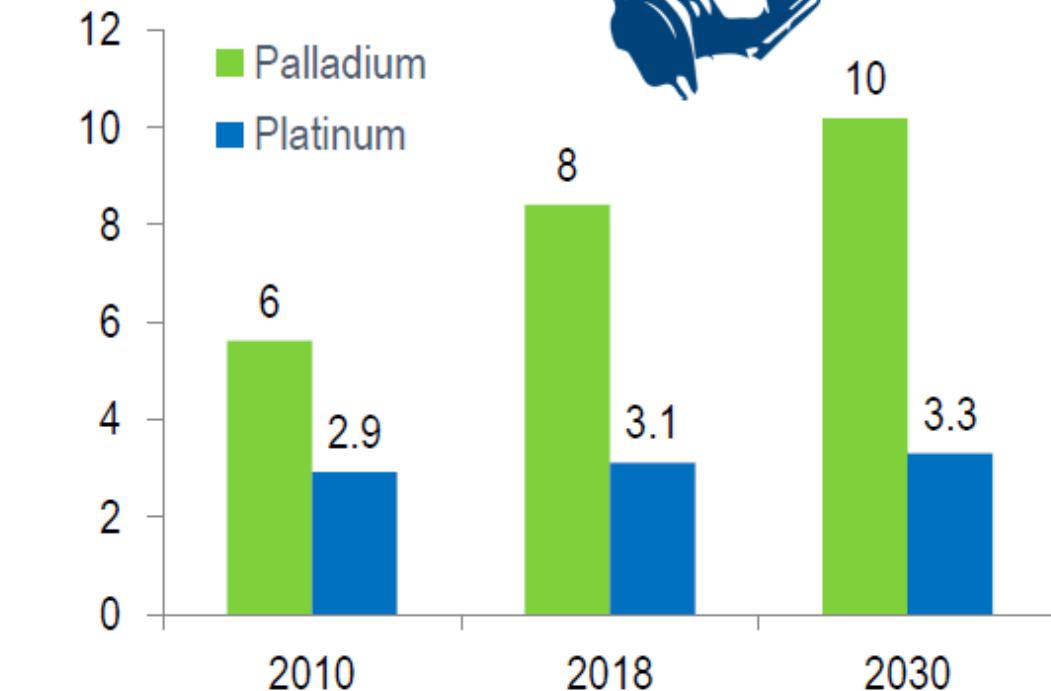
2018



Lähde: SFA Oxford

Autoihin liittyvän kysynnän näkymät

Miljoonaa unssia



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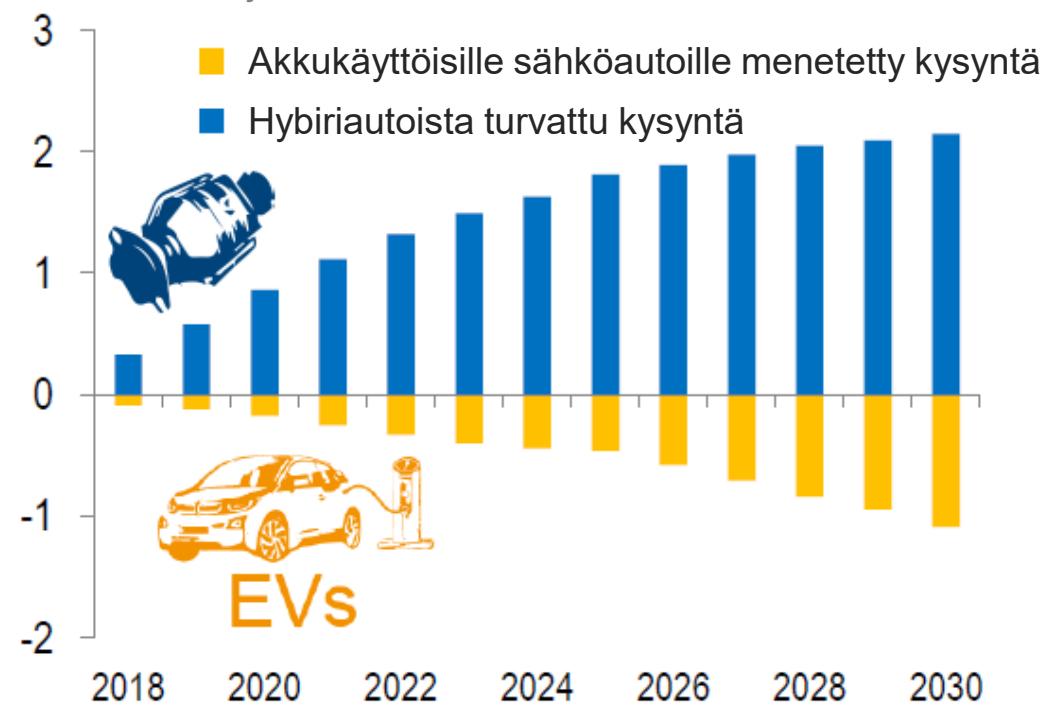
Platinaryhmän metallien käyttö ajoneuvoissa

	Bensiini	Diesel	Hybridti (myös PHEV)	Täyssähköauto	Vetypolttojenno
Ni	Ruostumaton teräs ja osat 2-4 kg	2-4 kg	Akut 5-15 kg	30-110 kg	2-3 kg
Cu	Johtimet ja osat 20-25 kg	20-25 kg	Sähkömoottori ja generaattorin käämitys 45-50 kg	75-80 ³ kg	70-75 kg
PGM	Katalyytit 2-5 g	3-6 g	2-6 g	-	Polttojenno 25-35 g
Pt:Pd suhde	1:4	8:1	1:4		

Kulkuneuvojen sähköistyminen

Voimalähteen vaikutus palladiumin kysyntään

Palladium, miljoonaa unssia

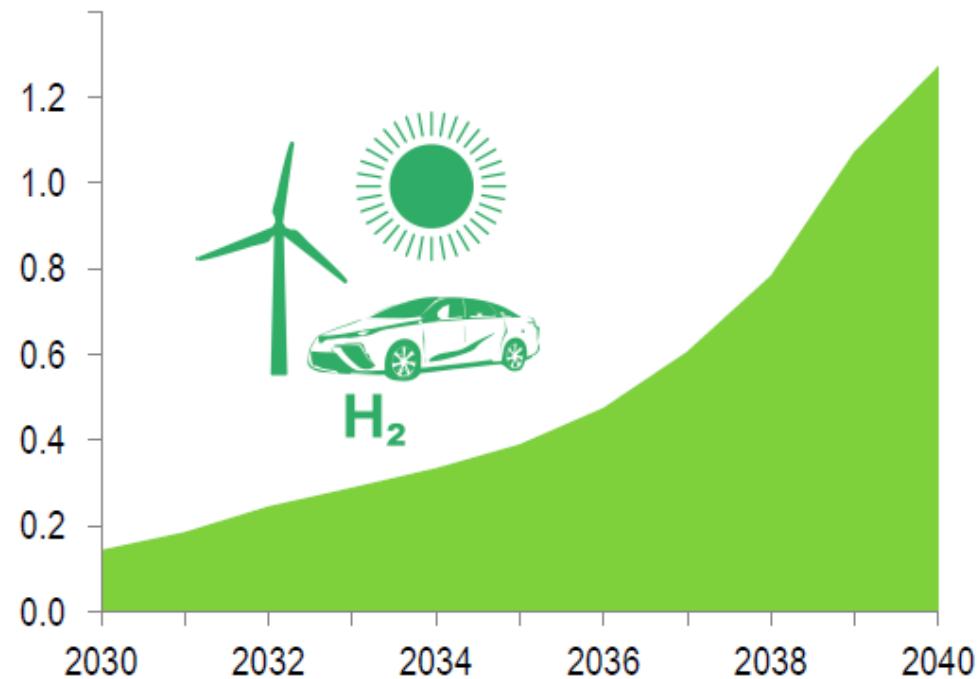


Lähde: SFA Oxford

Vetypolttojennot uusi mahdollisuus platinaryhmän metalleille

Pitkän aikavälin kysyntä vetypolttojennoista

Platina, miljoonaa unssia



Kiitos

