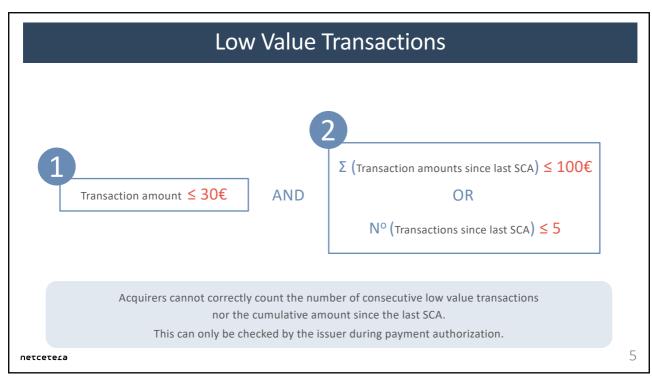
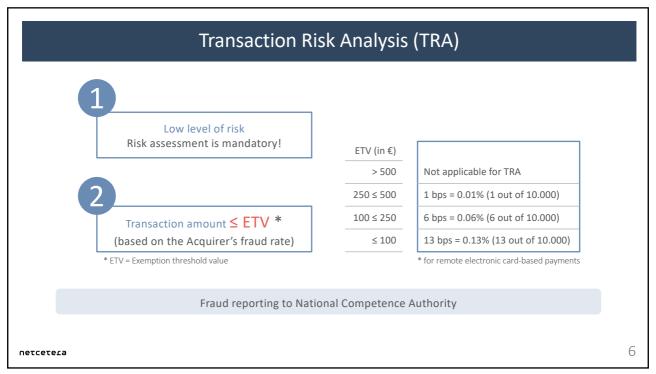
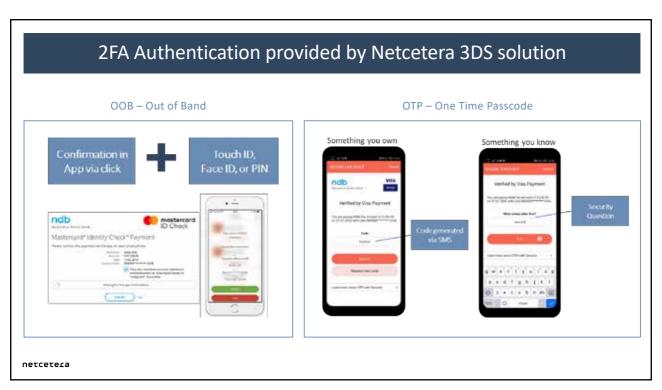


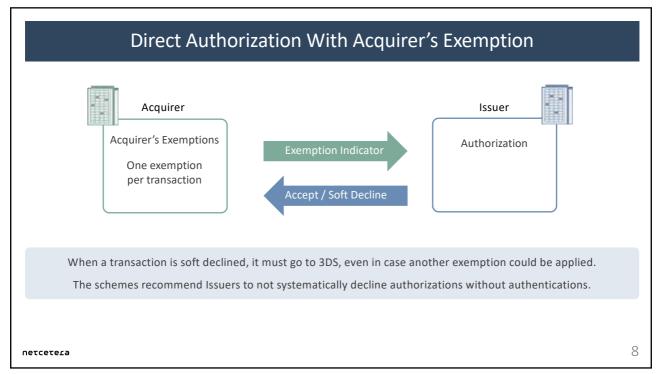
PSD2 Exemptions and it's Opportunities PSD2 Exemptions = no SCA applied Frictionless process, without challenge Optional for use Benefits Reduce of abandonment rates Provide seamless customer experience How it works Appropriate risk scoring is applied No other exemption has been applied Security at first place Issuers can still reject the exemption, even with met criteria

Which PSD2 Exemptions can be Used by Acquirers? In scope of PSD2 RTS Out of scope Acquirer Issuer Low-value Anonymous prepaid cards Trusted beneficiaries мото * (Whitelisting) One-leg transactions Secure corporate payments MIT ** * MOTO = Mail order / Telephone order Delegated authentication ** MIT = Merchant initiated transaction 4 netcetera

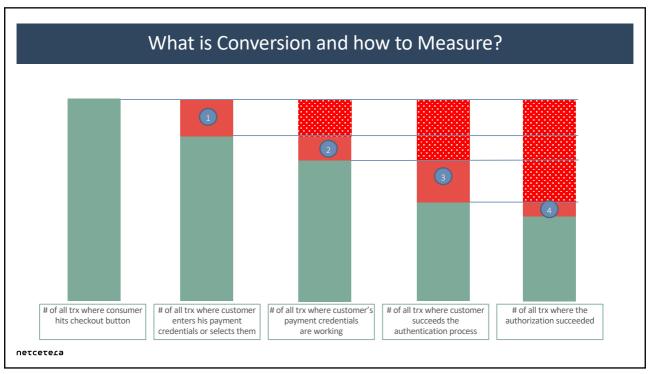


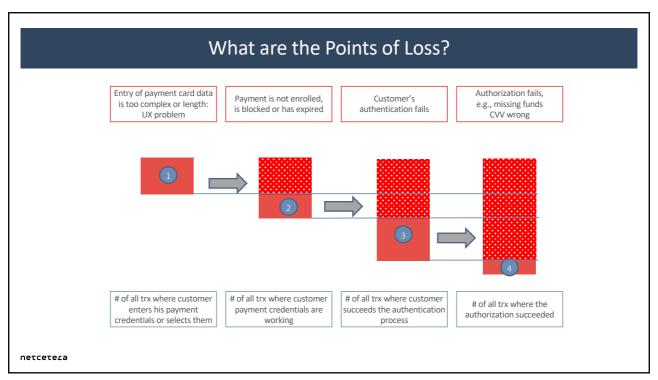


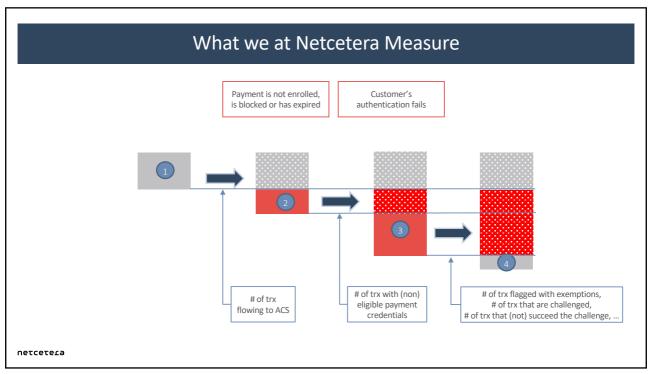


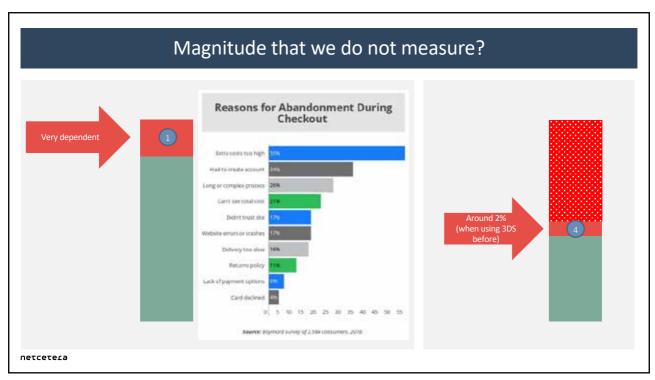














How did we Measure?

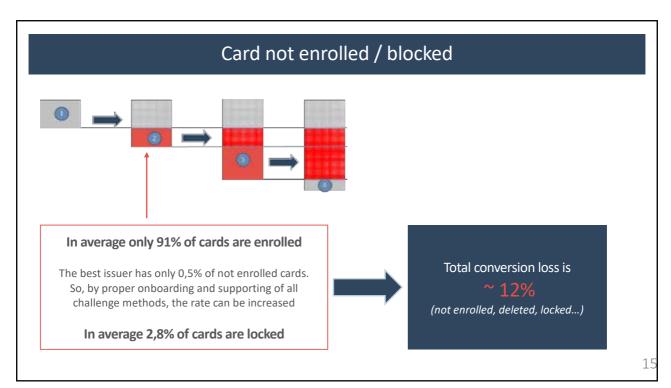
We took data from our ACS at selected dates (same weekdays) at selected hours in the afternoon, so looking into $^{\sim}$ 2,5 mil datapoints with each around 50 attributes = 120 Mio fields

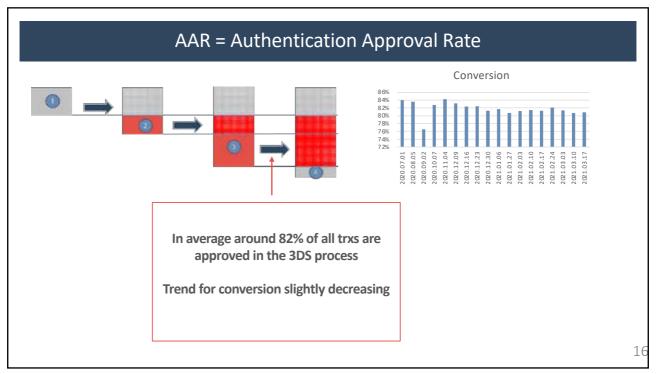
Data extracted monthly from July to Dec 2020 and then around weekly intervals starting 2021.

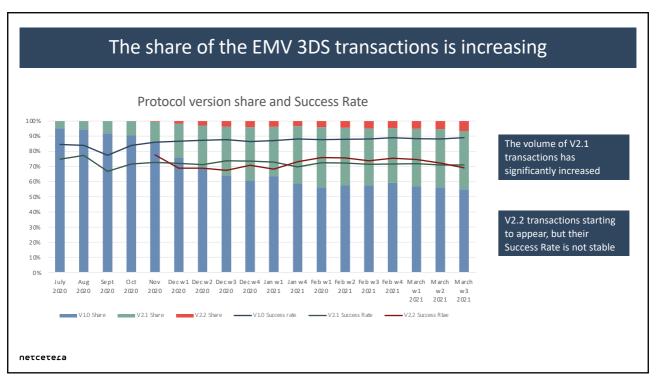
We have excluded transactions outside of EEA, both from issuer side but also from merchant side (so not considering one-leg or even two-legs out)

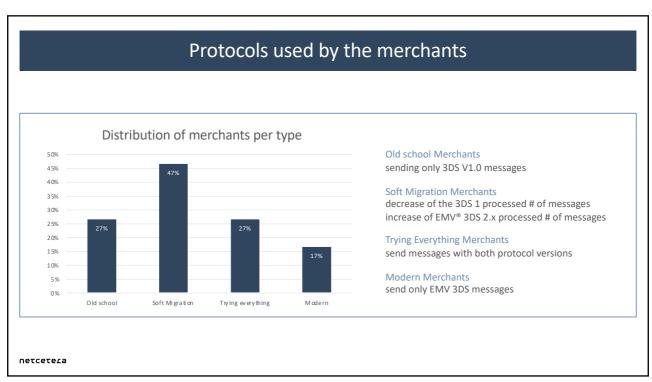
We have excluded any test and non-payment transactions (excluded transactions with 0 amount)

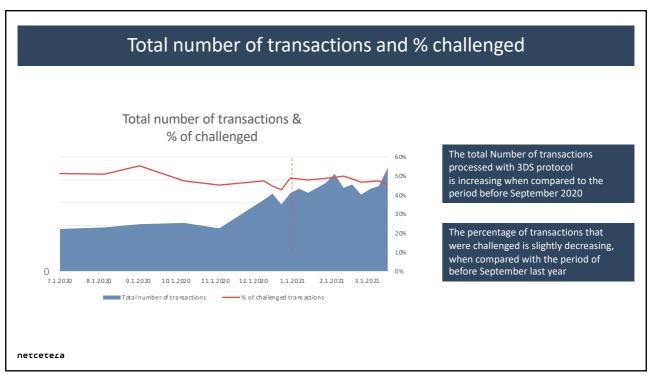
We have written a Python program to do the math and generate appropriate queries and tables

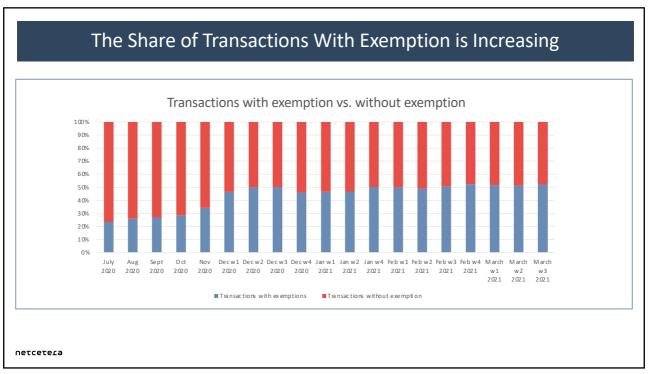


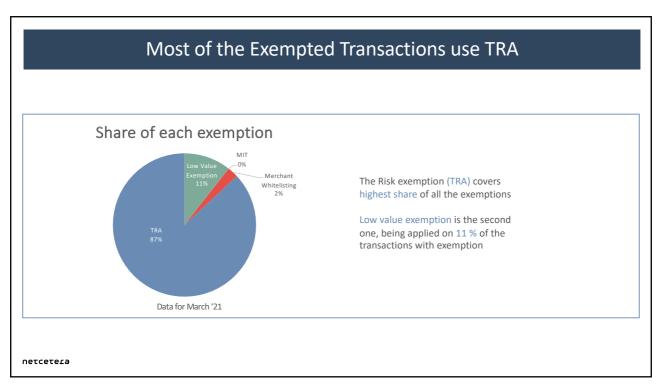


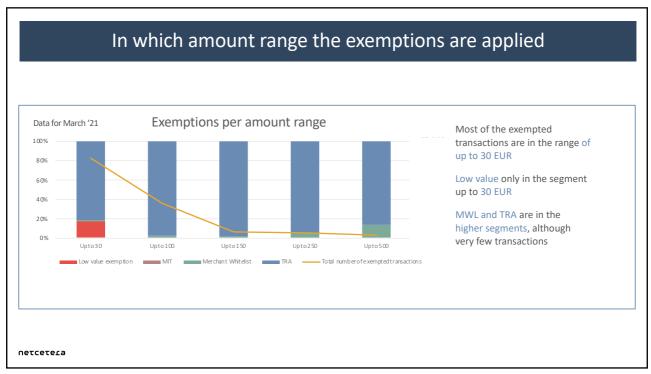


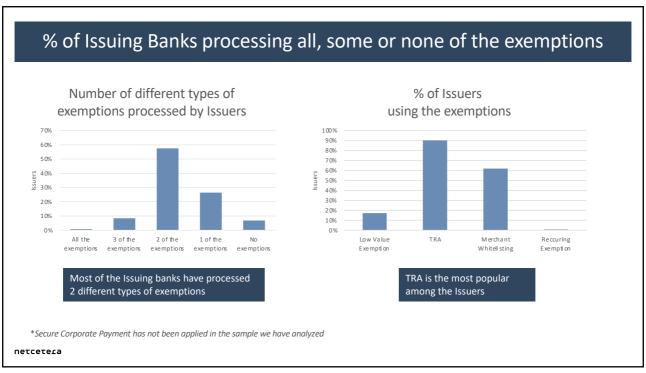


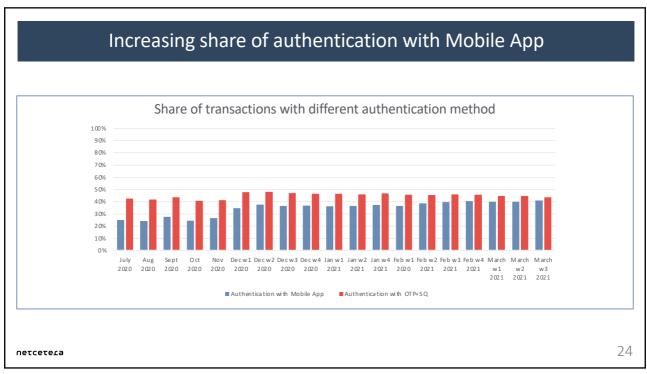


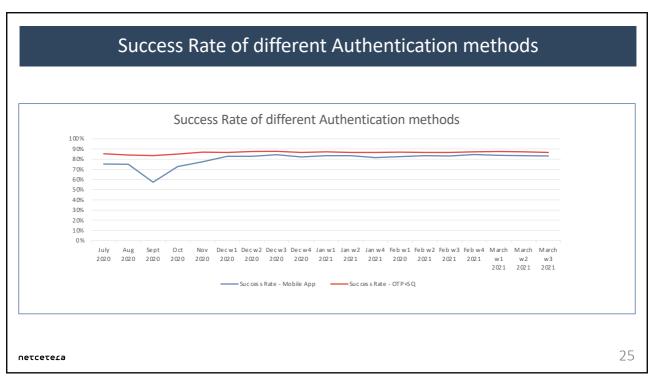


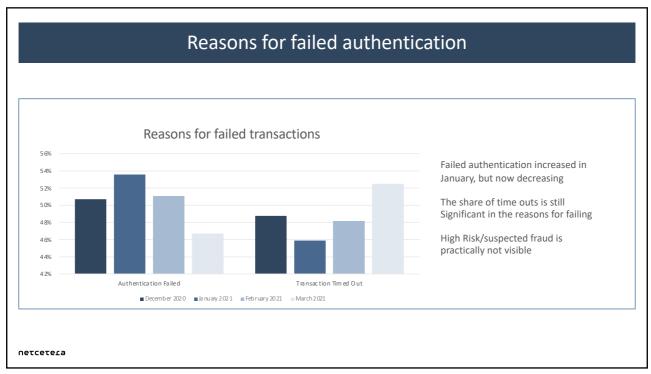


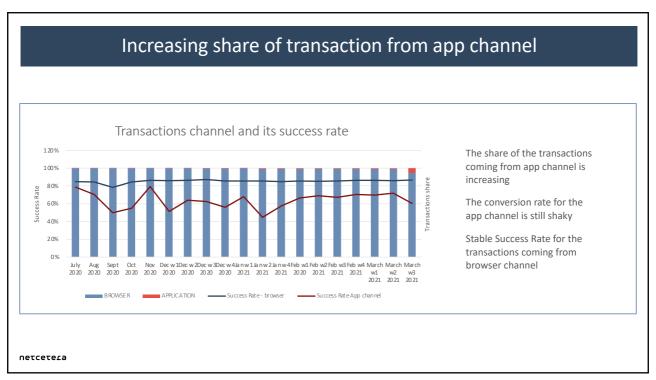


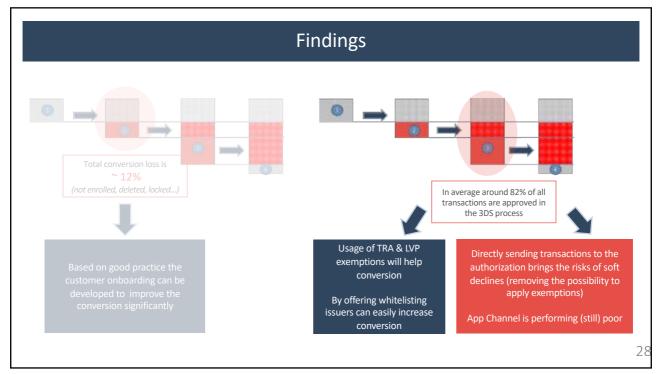












Summary & Recommendation



Communication to cardholders is key to help them to adopt the SCA methods (OOB, OTP)

Cooperation between all parties (three domains) will help solving the interoperability issues

Testing, Testing, Testing

(see also https://3dss.netcetera.com/mastercard-psd2-testing/)

EMV 3DS on mobile channel still problematic, although it should be superior in theory as it is in infant status

Proper use of PSD2 exemptions help in decrease the abandonment rate and in improve of the customer's experience (seamless - one click payments)

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