

## Fintech challenges at DNB

### Evert Fekkes, Erus Schuurman

DeNederlandscheBank

EUROSYSTEEM

## Market developments

Innovation and fragmentation

Evert Fekkes & Erus Schuurman

november '19



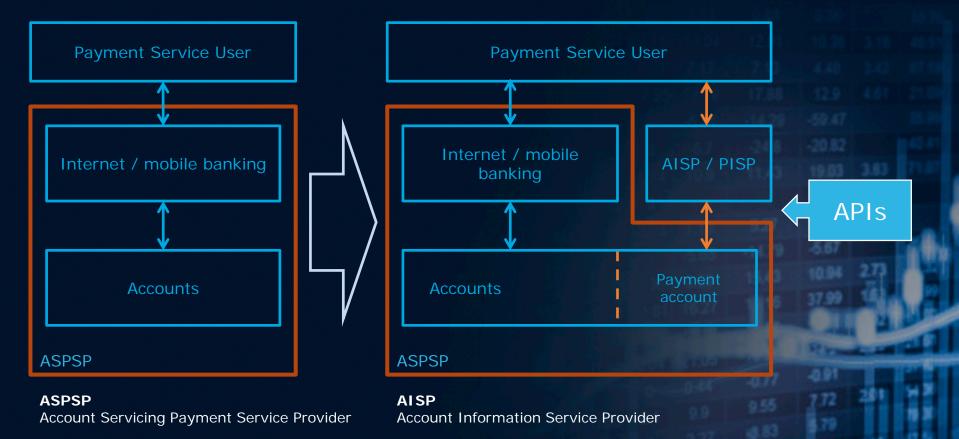
#### Game Changers: rules, schemes, technology





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#### **PSD2** – Access to the Account introduces two new roles



#### PISP

Payment Initiation Service ProviderEvert Fekkes & Erus Schuurman

### Instant payments: the new normal

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Evert Fekkes & Erus Schuurman

#### **DUTCH FINTECH INFOGRAPHIC 4.0**



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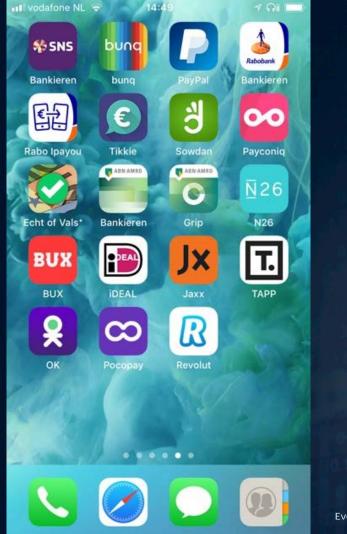
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## Prudential supervision payment & e-money institutions

Approach and experiences November 2019

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#### 1.1 Retail payments sector:





fragmentation and highly competitive

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#### 1.2 Supervisory process

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# 1.3 Retail payments sector: Licensing and notification process (Payment Sevices Directive 2)

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1 General information

- 2 Business case
- 3 Sound business operations
- 4 Ethical business operations
- 5 Fit and proper assessment of policymakers and co-policymakers
- 6 Two day-to-day policymakers working from the Netherlands
- 7 Transparent governance structure
- 8 Qualifying holdings
- 9 Securing the funds of payment service users
- 10 Minimum own funds and solvency
- 11 Indemnity insurance
- Annex: Overview of required annexes

- <sup>4</sup> DNB good practice:
  - Fit and proper assessment
  - Recovery and exit plan
- <sup>35</sup> DNB challenges:
- <sup>37</sup> Governance
- <sup>38</sup> Safeguarding
  - Outsourcing (global)
  - Qualifying holdings
  - Many applications (PSD2, Brexit, and new BigTechs)

# 1.4 Retail payments sector: Typology PIs and EMIs and authorisation process

Business models of Payment institutions (based on eight payment services as defined in PSD2):

- Collecting payment service providers (merchant oriented)
- Terminal focused service providers (merchant oriented)
- FX payment service providers (merchant and/or consumer oriented)
- Consumer finance service providers (consumer oriented)
- New PSD2 services providers (merchant and/or consumer oriented):
  - Payment initiation service providers

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- Account information service providers
- Cash money transfer service providers (merchant and/or consumer oriented)
- → In total 48 licensed payment institutions (in total > EUR 200 billion payment volume in 2018)

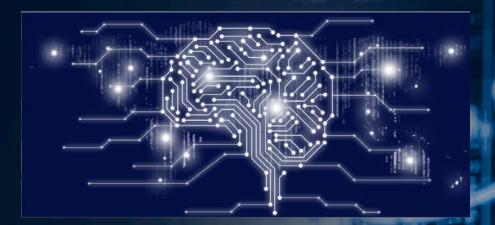
### 2.1 Supervisory process: RAS

Five risk categories:

- Business model (risk)
- Financial risk (capital focused)
- Governance (risk)
- Operational risk
- Financial economic crime risk



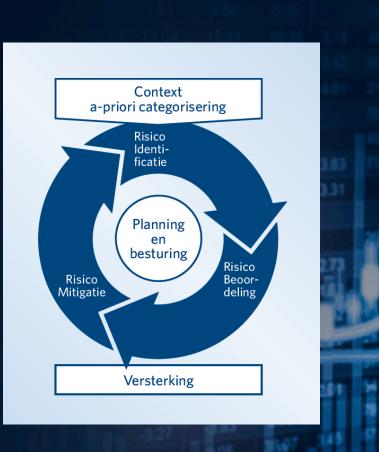




### 2.2 Supervisory process (RAS)

RAS - process overview

- 1. Automatic scores based on prudential reporting and common knowledge
- 2. Evaluation of automatic scores
- 3. Challenge sessions with peer group institutions
- 4. Final RAS- and ID-card
- 5. Prudential supervisory plan (both sector wide thematic reviews as institution specific actions)



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### 2.3 Supervisory process: RAS

Name of institution							
Institution DNB relation number							
Name(s) of supervisor(s)			Robbert				
T-class of institution			T3				
Date of review			2018Q4				
Review based on financials as of			2019Q2				
Risk categories	AS (t0)	ES (t0)	RC	AS (t-1)	ES (t-1)	Narrative. Please explain why you decided to (not) adjust the score in a maximum of 4 sentences. Examples: consideration of additional institution risks (e.g. FX / Liquidity / Chargeback risk), outcomes of on-site investigations / Risk Control Framework/ thematic reviews / PDR's, governance issues around stichting derdengelden.	
Business model	3	4	n/a	4	4		
Financial risk	2	2	2	1	2		
Governance	1	3	3	1	2		
Operational risk	2	3	3	2	3		
Integrity risk	2	n/a	3	3	n/a	n/a	
Overall risk score (AVG)	2	3	3	2	3	n/a	

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#### 2.4 Supervisory process

Thematic reviews (partly based on RAS):

- Safeguarding of funds (2015/2016)
- Business model evaluation (2016, desk research)
- Recovery and exit plans (2017)
- Operational and security risk management under PSD2 (2018)

#### Prudential reporting

- Finrep/Corep twice a year
- Annual accounts

Signals and incidents

- Major incident guidelines under PSD2, see →
- Customer complaints
- Suggestions competitors

Criteria	Lower impact level	Higher impact level
Transactions affected	> 10% of the payment service provider's regular level of transactions (in terms of number of transactions) and > EUR 100 000	> 25% of the payment service provider's regular level of transactions (in terms of number of transactions) or > EUR 5 million
Payment service users affected	<ul> <li>&gt; 5 000</li> <li>and</li> <li>&gt; 10% of the payment service</li> <li>provider's payment service users</li> </ul>	<ul> <li>&gt; 50 000</li> <li>or</li> <li>&gt; 25% of the payment service provider's payment service users</li> </ul>
Service downtime	> 2 hours	Not applicable
Economic impact	Not applicable	> Max. (0.1% Tier 1 capital,* EUR 200 000) or > EUR 5 million
High level of internal escalation	Yes	Yes, and a crisis mode (or equivalent) is likely to be called upon
Other payment service providers or relevant infrastructures potentially affected	Yes	Not applicable
Reputational impact	Yes	Not applicable

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A few examples:

- 1. Operational failure which results in safeguarding and capital issues
- 2. Non-compliant attitude and culture (AML and TF) driven by director and major shareholder
- 3. Continuous loss making resulting in capital deficiency
- 4. Lack of risk and compliance awareness within the board of directors
- 5. Exit (wind down) of payment activities



### 3.2 Typology PIs and EMIs and authorisation process

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Not (yet) in scope of prudential supervision:

- Crypto currency issuers
- Commercial agents
- Crowdfunding platforms
- Physical gift cards
- Closed network gift cards

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#### 3.3 Recent/current developments



#### PSD2:

- More focus on operational and security risks
- Prevent cybercrime
- New types of licenses (Open Banking)
- Strong customer authentication
- New reporting
- Brexit
- Credit risk exposures (including counter party credit risk)
- Financial economic crime
- Data quality
- Sustainability



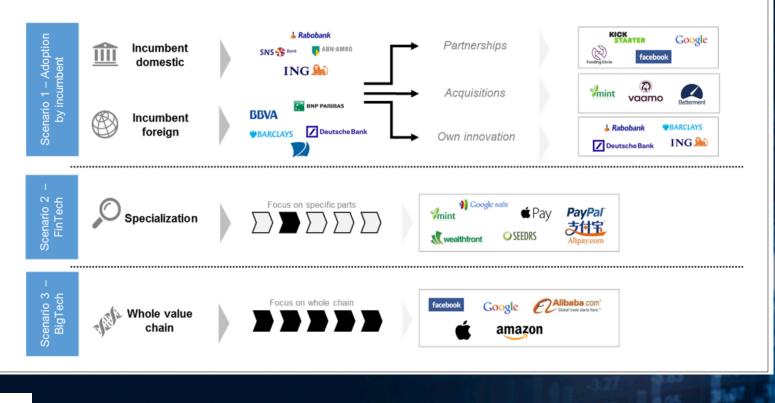


#### 3.4 succesfull life cycle

From start-up, payment institution, licensed bank and succesfull initial public offering:



#### 4.1 Developments – future scenarios



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#### 4.2 Developments – future scenarios



Technological developments

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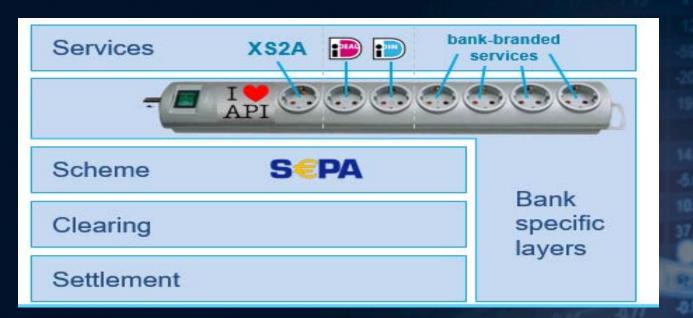
Changing consumer behaviour



Law and regulation

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#### 4.3 Open Banking – access beyond PSD2



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#### 4.5 Developments – future scenarios



#### Outsourcing







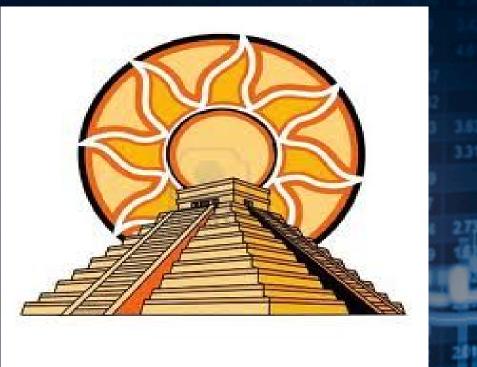


4.6 Developments - Traditional prudential supervision on banks and payment institutions

Banks

#### Outsourcing

Technology



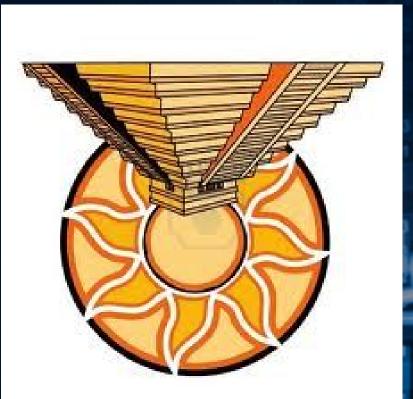


4.7 Developments - How are we going to supervise bigtech companies in retail payments?

Big tech

Outsourcing

Banks and payment institutions





#### 4.8 Developments - UBER in Payments

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## UBER

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#### Characteristics:

- Disruptive
- Platform economy, highly scalable
- Focus on growth
- Technology oriented, Not primary focused on attracting deposits or credit activities
- Culture, no financial background
- User oriented

# 4.9 Developments – Bigtech companies entering the retail payments market

- Amazon
- Google
- Facebook
- Apple
- Alibaba, Alipay
- Tencent (WeChat Pay)



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#### 4.10 Challenges from a supervisory perspective

- Proportionality
- Compliance to GDPR (European Privacy Law)
- CDD and transaction monitoring
- Differences between bank account, payment account and online wallets
- Regulatory / supervisory arbitrage
- Boots on the ground, no empty shells
- Direct access to clearing and settlement

#### 5. Developments – smart supervisor

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