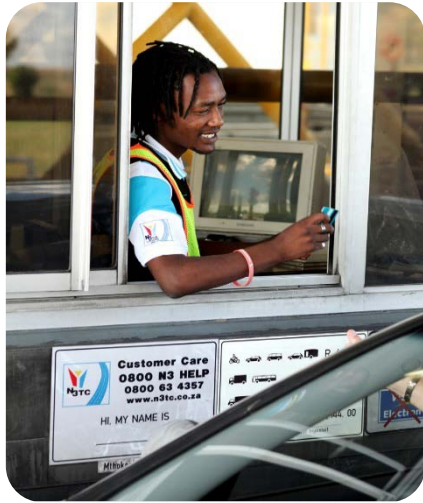


Interoperability Progress Across the Globe SOUTH AFRICA





Overview

Interoperability Models

Baseline Policies

SA Interoperability Timeline

SA Interoperability Model

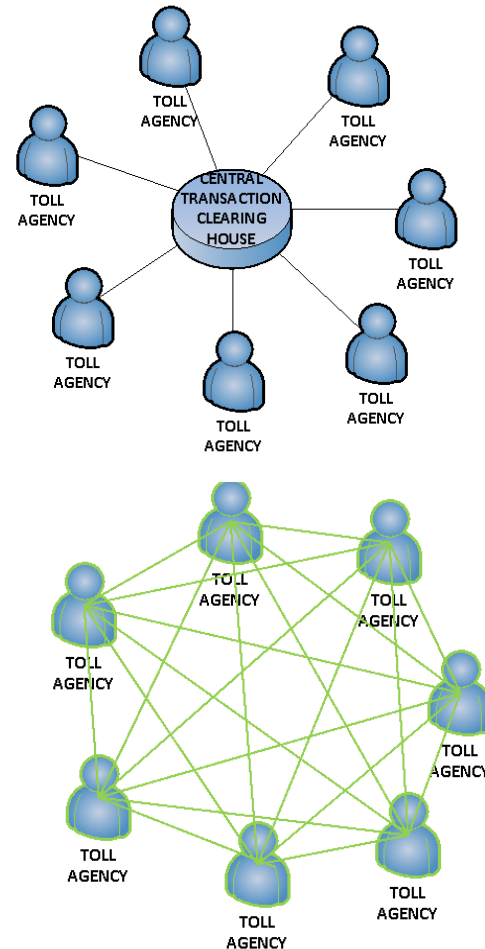
Risk Analysis & Lessons Learnt



- Toll roads first introduced in 1984
- Grown from 27 km to 3,089 km in 2016
 - 1,819 km managed by SANRAL
 - 1,270 km managed by three Concessionaires
- Toll roads = 14,1% of the National Road Network of 21, 946 km
- Human Population = 55 Million
- Vehicle Population = 11 Million
- Tag Population = 1,4 Million(1,3 Million active)
- Daily tag transactions = 800 000



- Clearing possibilities:
 - National Co-ordinated Central Clearing
 - Multiparty Roaming Agreements



- CEN Standard Adopted Nationally (EN15509)
- Central -
 - Transaction Processing and Clearing
 - Violation Processing(VPC) (Opt in or out)
 - Account Management and Tag Procurement
 - Database with Distributed Access
 - Pre-Paid or Guaranteed Post-Paid Accounts

ONE CENTRALLY MANAGED ACCOUNT MULTIPLE TAGS LINKED (ONLY ONE TAG PER VEHICLE)

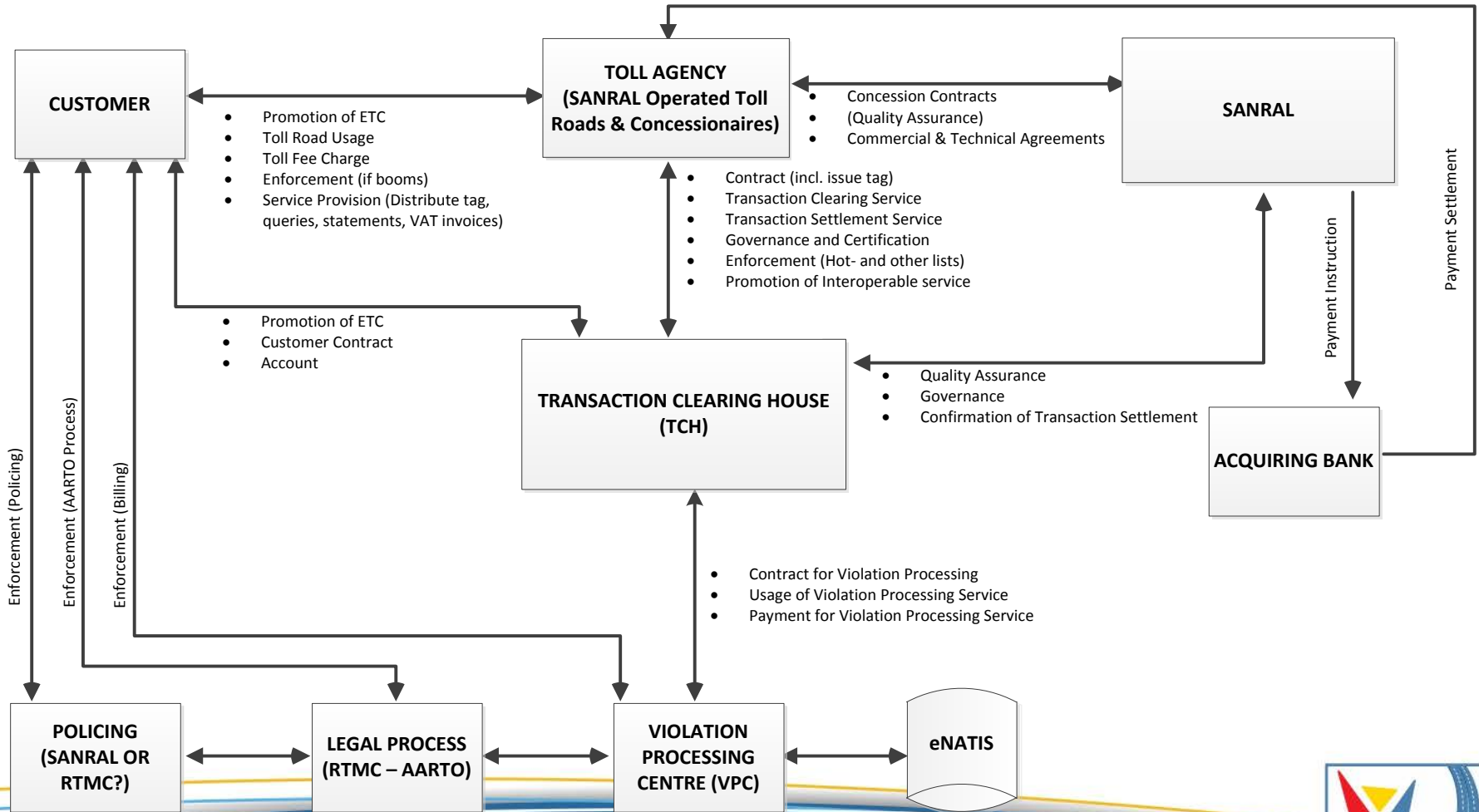
- Operated by SANRAL on Commercial Principles
 - based on total recovery of TCH expenses

SA Interoperability Timeline

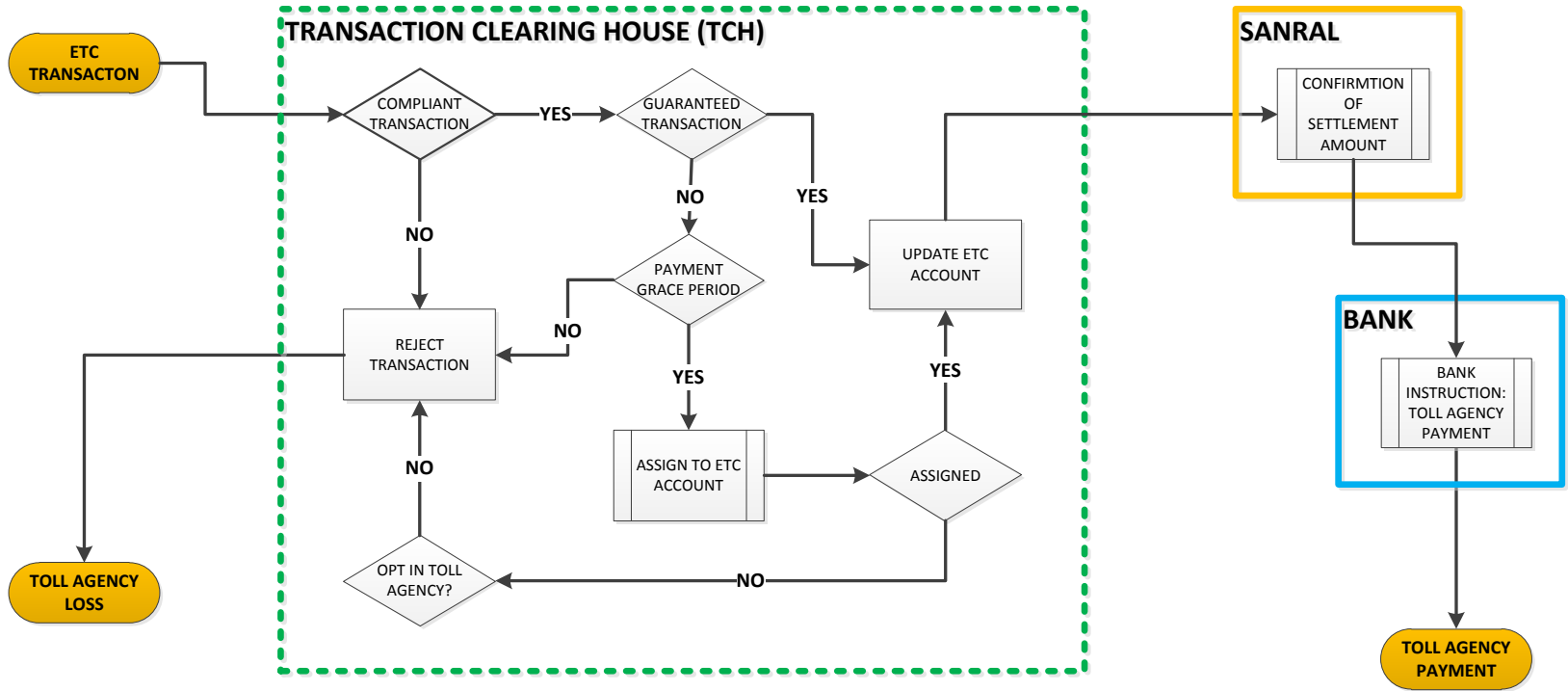
Year	Activity
2000/01	ETC Considered - CEN Standard Adopted by Sanral
2002	First ETC Implemented by Concessionaire(Bakwena)
2003 - 2005	Interoperability options considered
2006	Interoperability Framework drafted
2007/8	Design of Transaction Clearing House
2009	Tender for GFIP ORT Project Awarded
2010	Completed GFIP Facilities opened to SWC2010 traffic
2011/12	Legal Challenges on GFIP
2013	GFIP E-Toll Commences
2014	Sanral and Concessionaires: Commercial terms agreed
2015	Go – live on all existing toll roads
2016	ETC operational nationally

SA Interoperability Model

Key Stakeholders

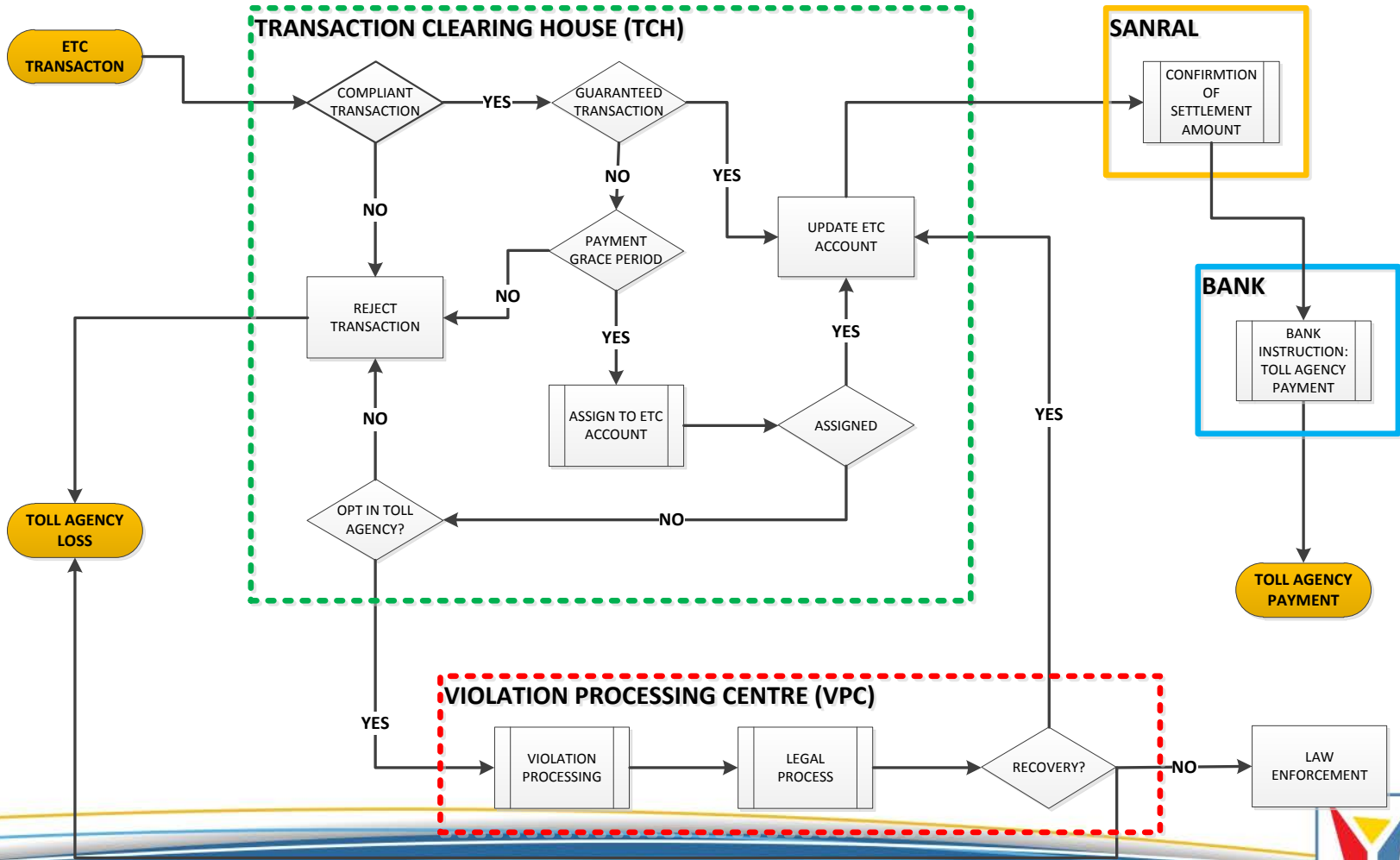


SA Interoperability Model Transaction Process Flow



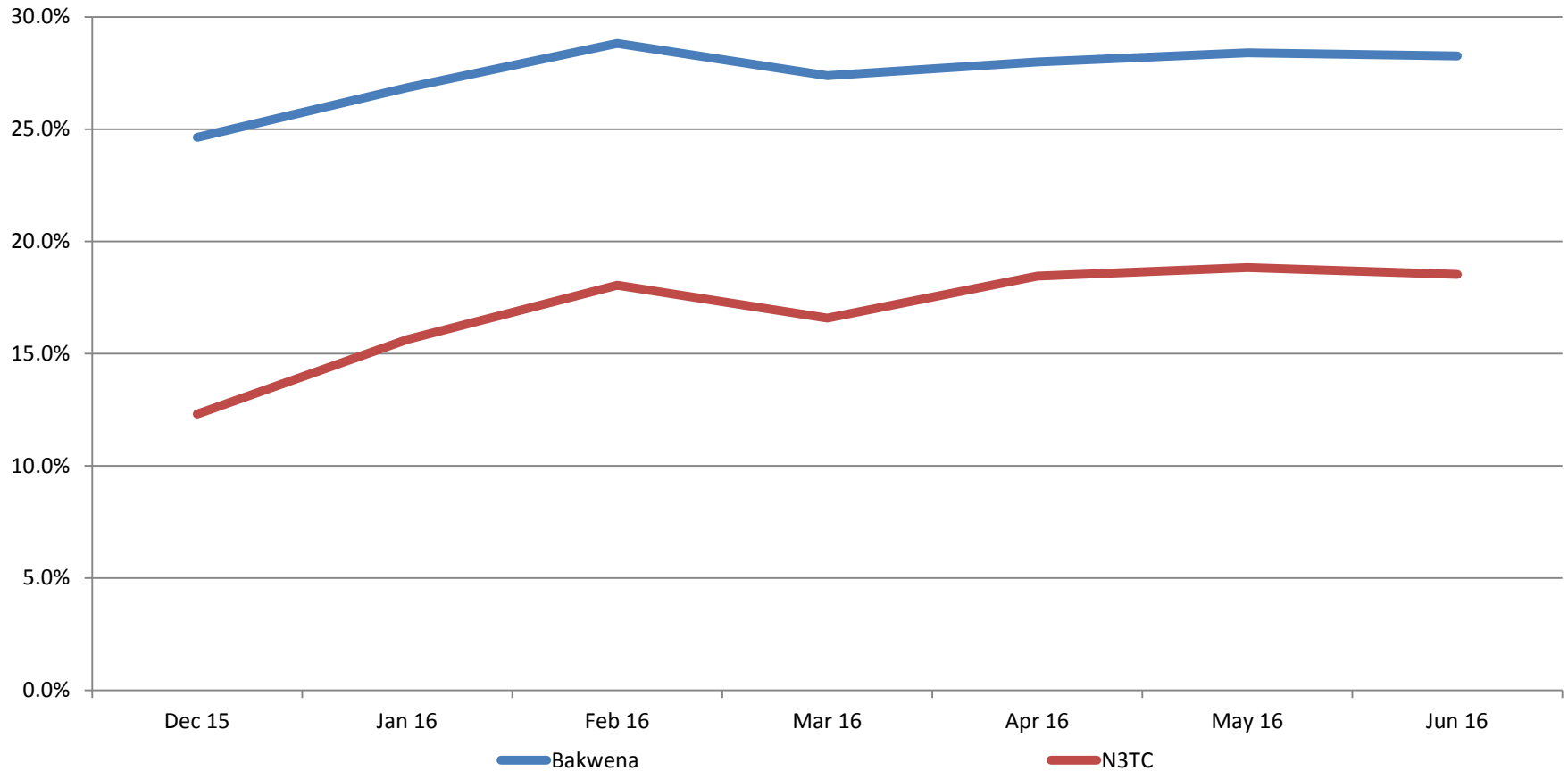
SA Interoperability Model

Violation Processing



TAG Market Share

ETC Market Share % of Total Traffic



Risk Analysis & Lessons Learnt

- Technical Interface
- Legislation
- Political Support
- Payment Compliance
- Third Party Dependence
- Public Relations and Marketing
- Operational Strategy / Change in business processes



End

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