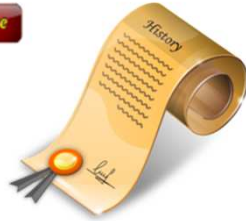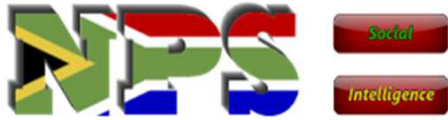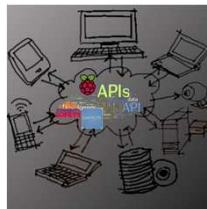# Number Plate Systems (Pty) ltd
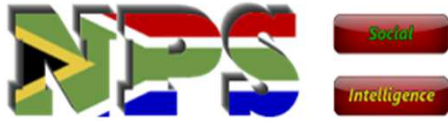
Fighting Crime through Social Intelligence.

History

- Started in 2014 to aid local community in the fight against crime.
- Each user kept own black book and sharing of suspect behaviour/intelligence was done with LOTS of red tape. This was the reason we created a central FREE database all users can contribute to.
- Developed scan and capturing BOTS for Facebook, Twitter, Whatsapp, Telegram, Wechat and websites to gather intel on suspect vehicle plates.
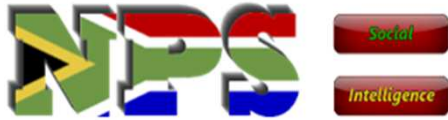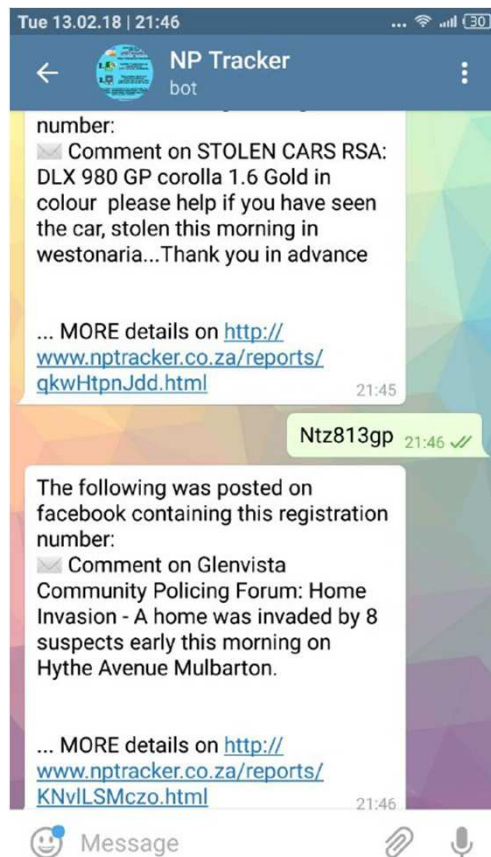
Type of info collected

- Created NP Tracker as an anonymous lookout database based on intelligence and not user. Each user has to determine validity based on his her own discretion / procedures on lookouts received.
- All major public domain sources are scanned* for lookouts and added to the NP Tracker suspect vehicle SADC database.
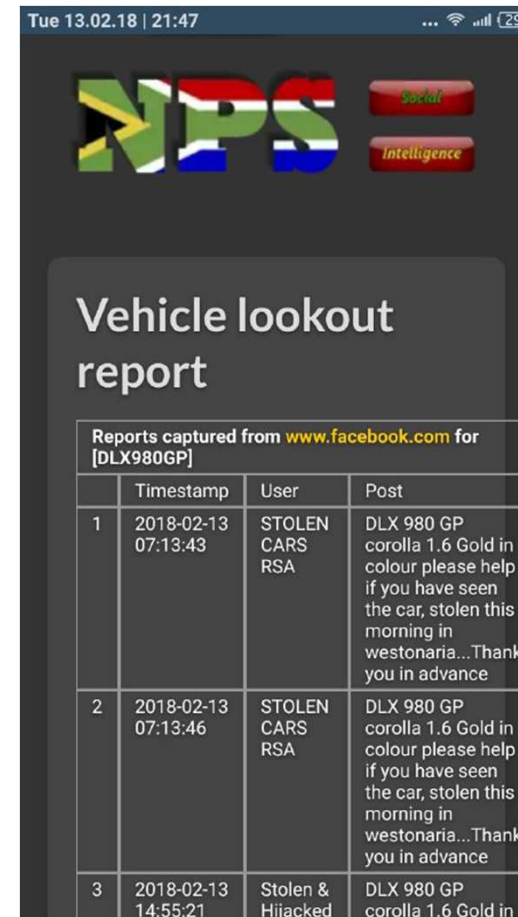- *Messages are scanned for NON personalized plates of all SADC countries.

Info Displayed
Telegram/Wechat clients

- Lookups are done by sending plate/photo to test against NP Tracker and or private hotlist datasets.
- Return and display content as stored on system longer than 200 char messages are truncated and web link send.

Info Displayed

NPS-LIC & NPS-ACCESS MVL disk scan

Info displayed:
- Scanner used
- Registration number
- Expiry date on disk
- NP Tracker status
- VIN Number
- Vehicle class
- Manufacturing Year
- Vehicle Colour
- Engine number
- VIN is checked against NPS-VIN for vehicle Manufacturer and Model
- Photo of vehicle-based on VIN WMI/VDS
- Third party dataset status.

- Officer scan vehicle disk barcode.
- Disk info is decoded and displayed.
- The registration number is checked against the NP Tracker database, an alert can be sent to a group/user on telegram if registration is flagged.
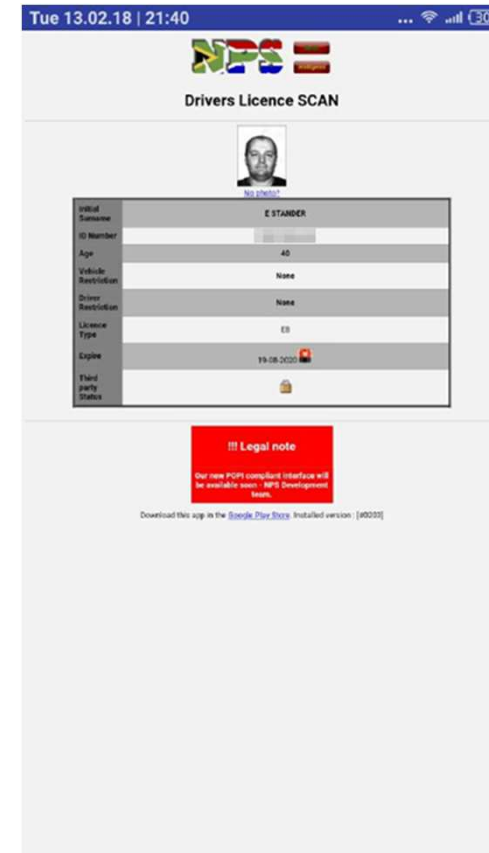
Info Displayed

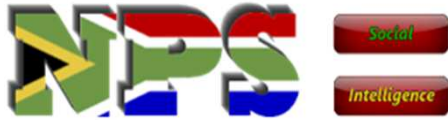## NPS-ACCESS Drivers Licence disk scan

Info displayed:
- Scanner used
- Initial and Surname
- ID Number
- Age
- Licence type
- Vehicle restrictions
- Driver restrictions
- Expiry date on card
- Photo of driver
- Third party dataset status.

- Officer scan drivers licence barcode.
- Drivers licence info is decoded and displayed.
- POPI Complaint by offering subject opportunity to decline storing his/her personal details on the system (NPS-CLOUD).
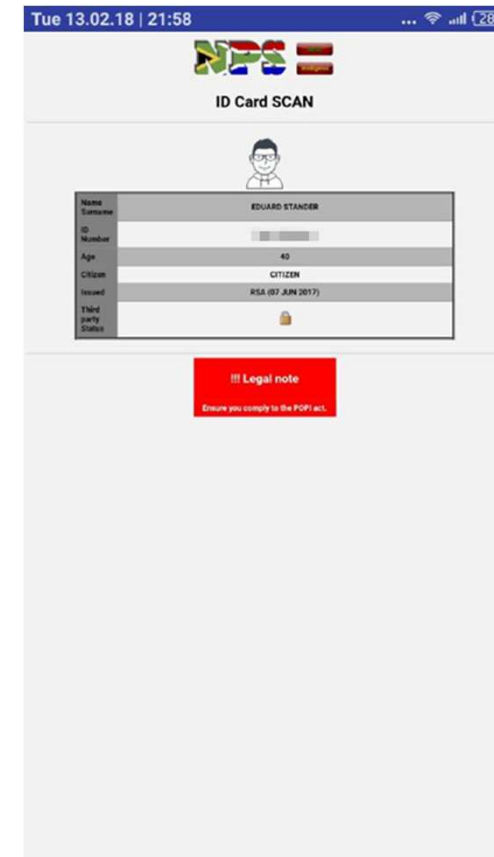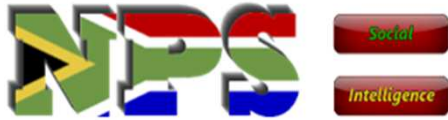
Info Displayed

NPS-ACCESS ID Card scan

Info displayed:
- Scanner used
- Name and Surname
- ID Number
- Age
- Citizen
- Date issued
- Image representing male/female
- Third party dataset status.

- Officer scan ID card barcode.
- ID card info is decoded and displayed.
- POPI Complaint by offering subject opportunity to decline getting his personal details saved to system (NPS-CLOUD).
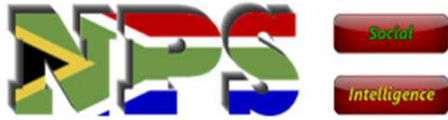
Lookup sources

- Vehicle registration lookups are done through instant messaging apps like Telegram (@NPTrackerBOT) and Wechat (NP Tracker) are free to use (except data used).
- NPS-CLOUD web interface.
- NPS-API is our web interface to interface existing systems to the NP Tracker database.
- Android scanners:
  - ➢ NPS-LICence disk scanner
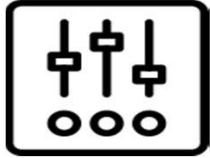 - ➢ NPS-Access controller.

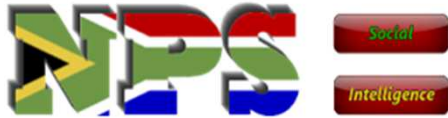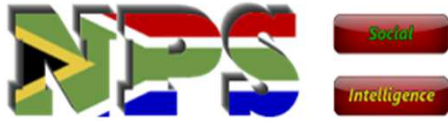# Instant messaging platforms

- Users send the registration number to lookup to one of our BOTS. The bot will lookup if there is a lookout for this registration number and return the result, if not found will provide the user with an option to add it as a lookout.
- Wildcard searches can be done by command /testplate ABC???GP
- ANPR is done on photos send to our Telegram BOT (@NPTrackerBOT / @NPS_BOT).

Usage control

- Except for the free IM platforms, NPS-API / NPS-CLOUD etc. services users have to authenticate (each user gets a token allocated to them).
- Tokens are pre-loaded with 150 credits per month more credits can be bought online via our Payfast interface.
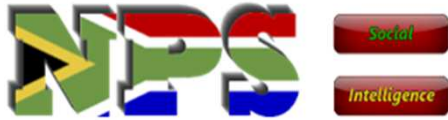
Costs/Credits

Credits/Tokens	Cost	Credits/Tokens	Cost
150	Free	30k	R 580
300	R10	60k	R1070
900	R 35	100k	R1650
1500	R 60	150k	R2100
3000	R 150	300k	R3850
6000	R 300	600k	R6950
9000	R 450	1Million	R9500

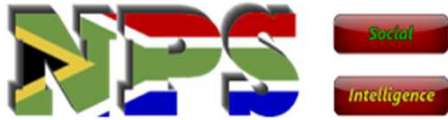| Action	Credit Costs
NPS-API lookup	1
NPS-CLOUD description	10
NPS-CLOUD registration	1
NPS-CLOUD (more info)	1
NPS-LIC MVL disk scan	1
NPS-LIC (more info)	1
NPS-ACCESS MVL disk scan	1
NPS-ACCESS DL scan	5
NPS-ACCESS ID scan	1
NPS-ACCESS Facial scan	1
NPS-ACCESS Fingerprint scan	1
NPS-ACCESS ANPR scan	1
NPS-ACCESS pre approved	1

- Each action gets allocated a "token" cost ie credits that will be subtracted from your available credits per transaction.
- Cost estimator available on http://www.nptracker.co.za/NPS-API Cost.html
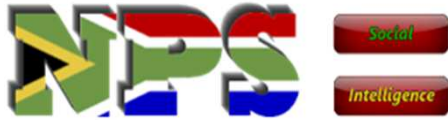
NPS-CLOUD

- Cloud-based web interface for:
  - Showing scan activities.
  - Private/Own hotlist management.
  - User management on IM lookups to own private hotlist.
  - Real-time notification management on alerts.
  - ANRP feeds (see NPS-API interface).
  - Account status and payments.
  - IM admin/moderator interface for social media user/group management.
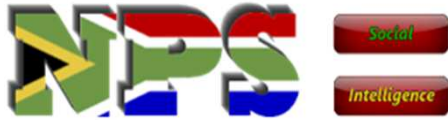- Website http://www.npscloud.co.za

NPS-API

- Program interface to receive JSON formatted results for HPPT-GET request sent to our servers.
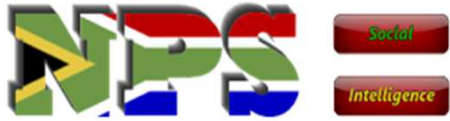- Used to interface to existing systems usually as a third party application.
- Documentation : http://www.nptracker.co.za/API.html

NPS-LIC

- Features:
  - ➤ Android application
  - ➤ Scans supported MVL, RC, TDL barcodes
  - ➤ History of scans can be sent as CSV files
  - ➤ More info (including VIN decoding)
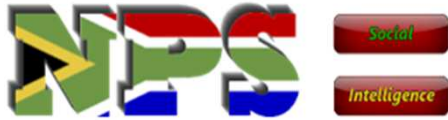 - ➤ Real-time notification of alerts sent by Telegram.

NPS-ACCESS

- Features:
  - ➢ Android application
  - ➢ Scans supported MVL, DL, IDCard barcodes
  - ➢ Display results (more info results) after the scan
  - ➢ Real-time notification of alerts sent by Telegram.

Integration to external systems/resources

- Integration to external sources and status shown on result screen available on request.
- The external source will use your existing credentials, we act as a gateway to the system, Information sharing to the NP tracker database will be discussed on a per case basis.

Technical

Information available for integration
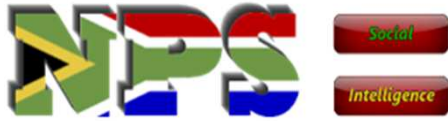
Motor Vehicle Licence
- Registration number
- VIN number
- Vehicle register number
- Engine number
- Make
- Colour
- Series name
- Vehicle description
- Control number
- Date of expiry.

Drivers Licence
- Initial
- Surname
- ID Number
- Date of Birth
- First issued date
- Valid from date
- Valid to date
- Date issued
- Drivers Code
- Vehicle restriction
- Driver restrictions
- Licence number
- Driver photo.

ID Card
- Name
- Surname
- ID Number
- Gender
- Date of birth
- Country of birth
- Status (Citizen)
- Date Issued.

We act as a public domain search engine for suspect vehicles and will always aim to keep our service as cost effective and open to all – Consider donating to this project.