

Migrating .TR Domains from Registry to Registrars

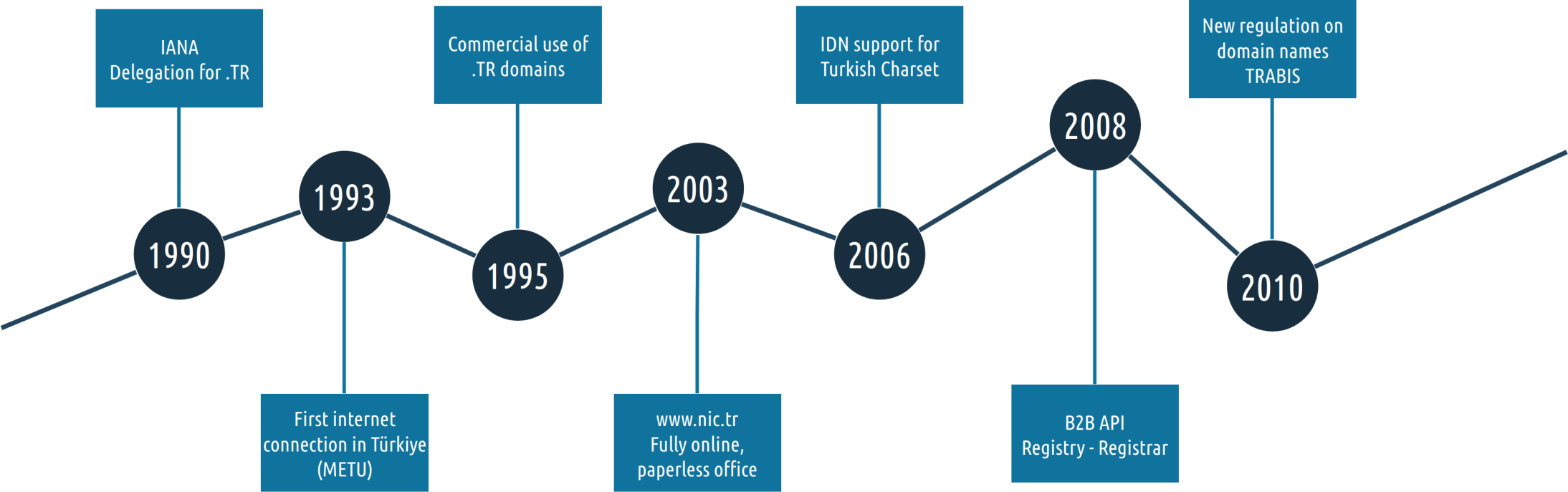
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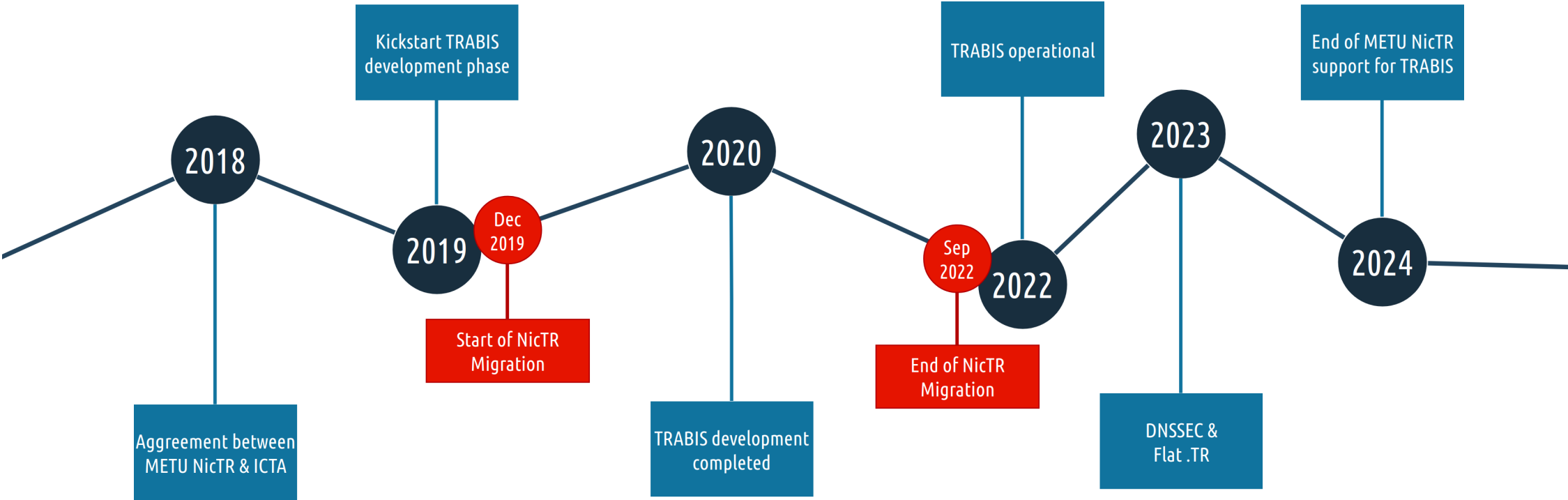
METUnic & ex-NicTR



History of NicTR & Internet in Türkiye



History of NicTR & TRABIS



TRABIS

Role of NicTR (1)

- Agreement between METU and ICTA (BTK)
- Transfer of the .TR ccTLD at IANA
- Consultancy
- Development of TRABIS (18 months)

TRABIS

Role of NicTR (2)

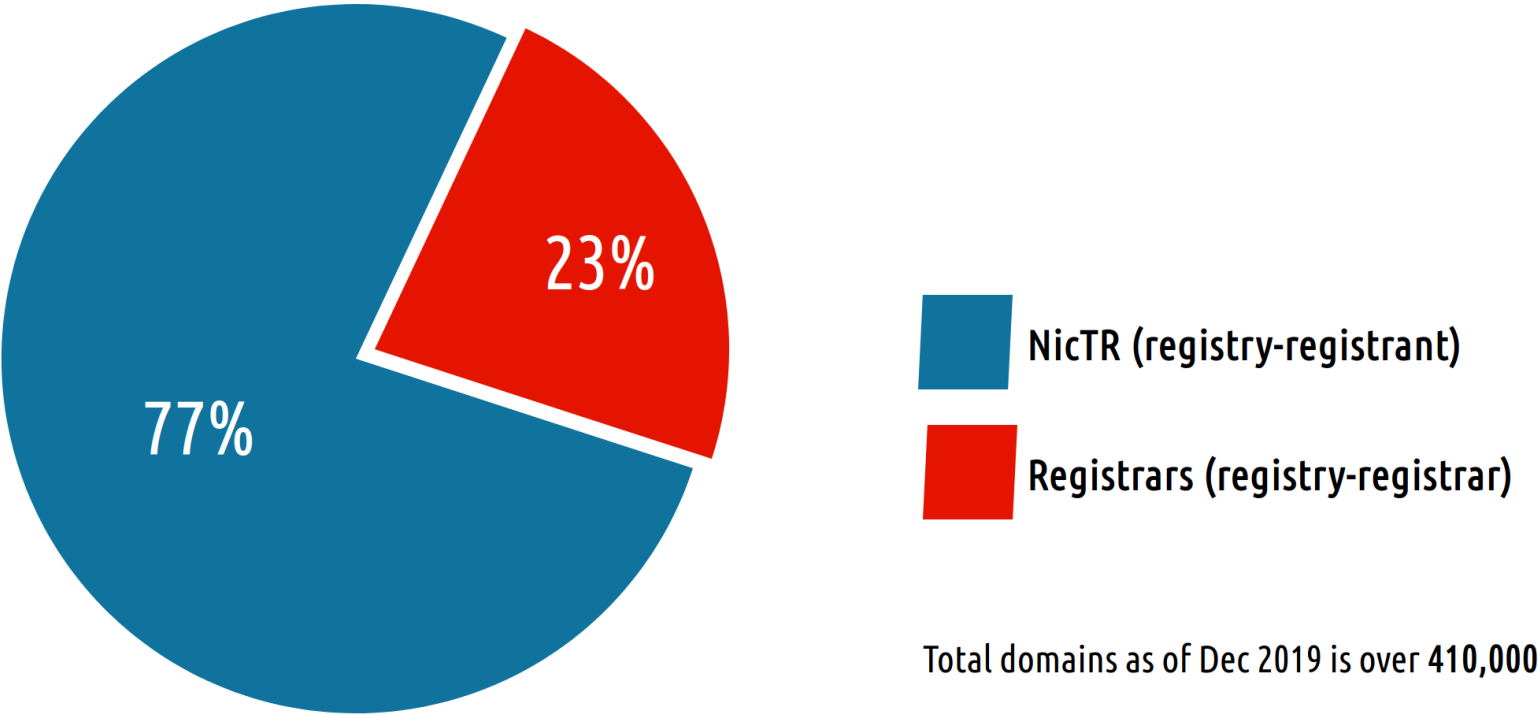
- Running operations (24 months)
 - Operate .TR ccTLD
 - Support for Registrars, Registrants
 - Implement DNSSEC
 - Implement flat .TR
- Handover of the entire infrastructure and operations to ICTA

TRABIS

Major Change of Registration Model

- NicTR
 - Started with **registry-registrant**
 - Mix of **registry-registrar** & **registry-registrant** since 2008
- TRABIS
 - Strict **registry-registrar**

Domain Distribution by Registration Model in Late 2019



TRABIS

TRABIS-Registrar (TRABIS-KK)

- Defined by TRABIS regulation:
 - A registrar to serve for *document-required*(?) domain names
 - Also acts as a fallback / transition registrar
 - All domains remaining at the registry will be transferred to this registrar at once
 - Most registrants will only be able to obtain the transfer codes and must find a registrar to transfer their domains to
- Potential chaos following the launch of TRABIS

NicTR Migration

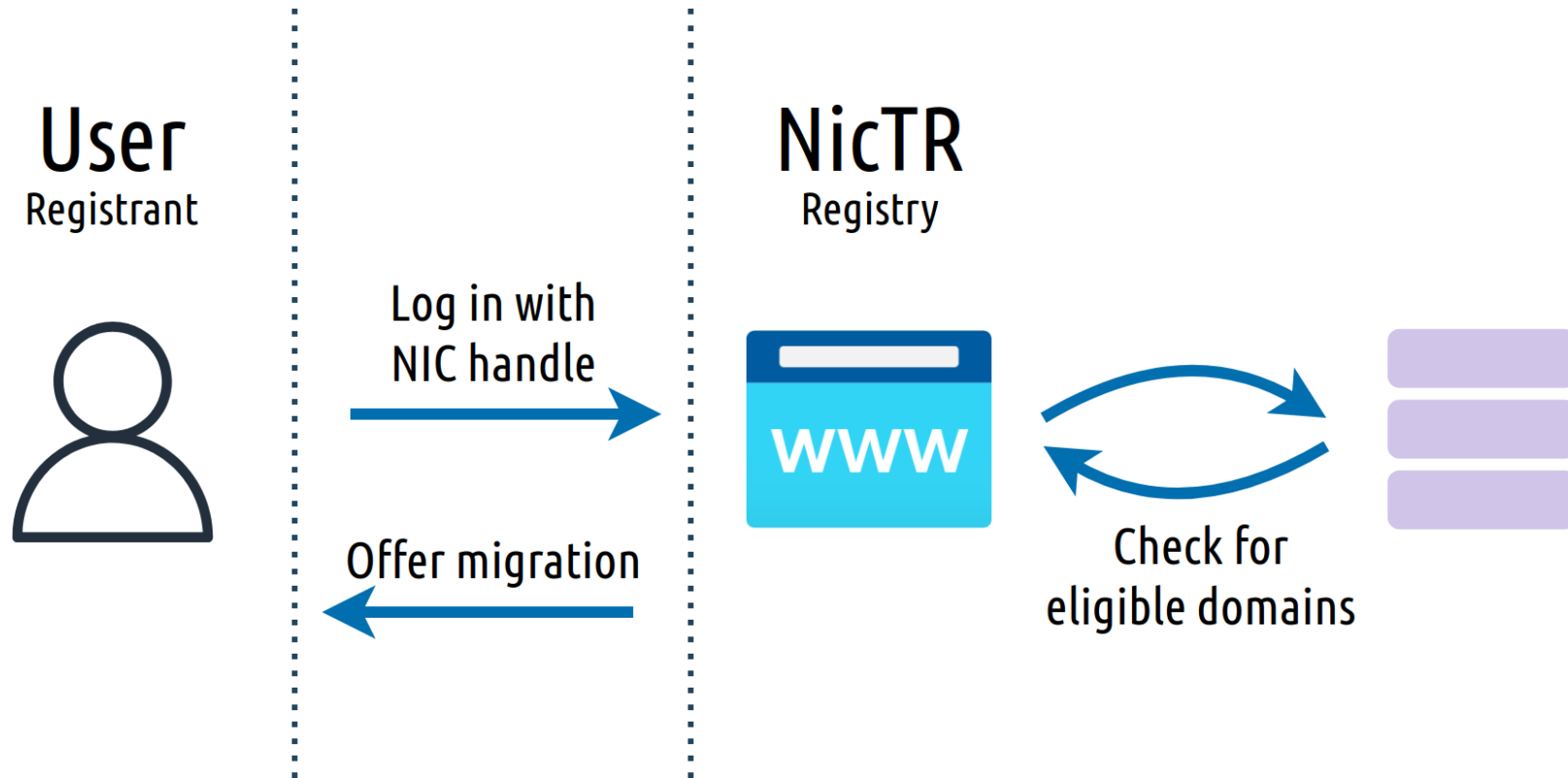
- An early solution to a future (=TRABIS) problem
 - Public awareness
 - Terminate registrations & renewals at registry
 - Introduce a straightforward way to transfer domains to registrars

NicTR Migration

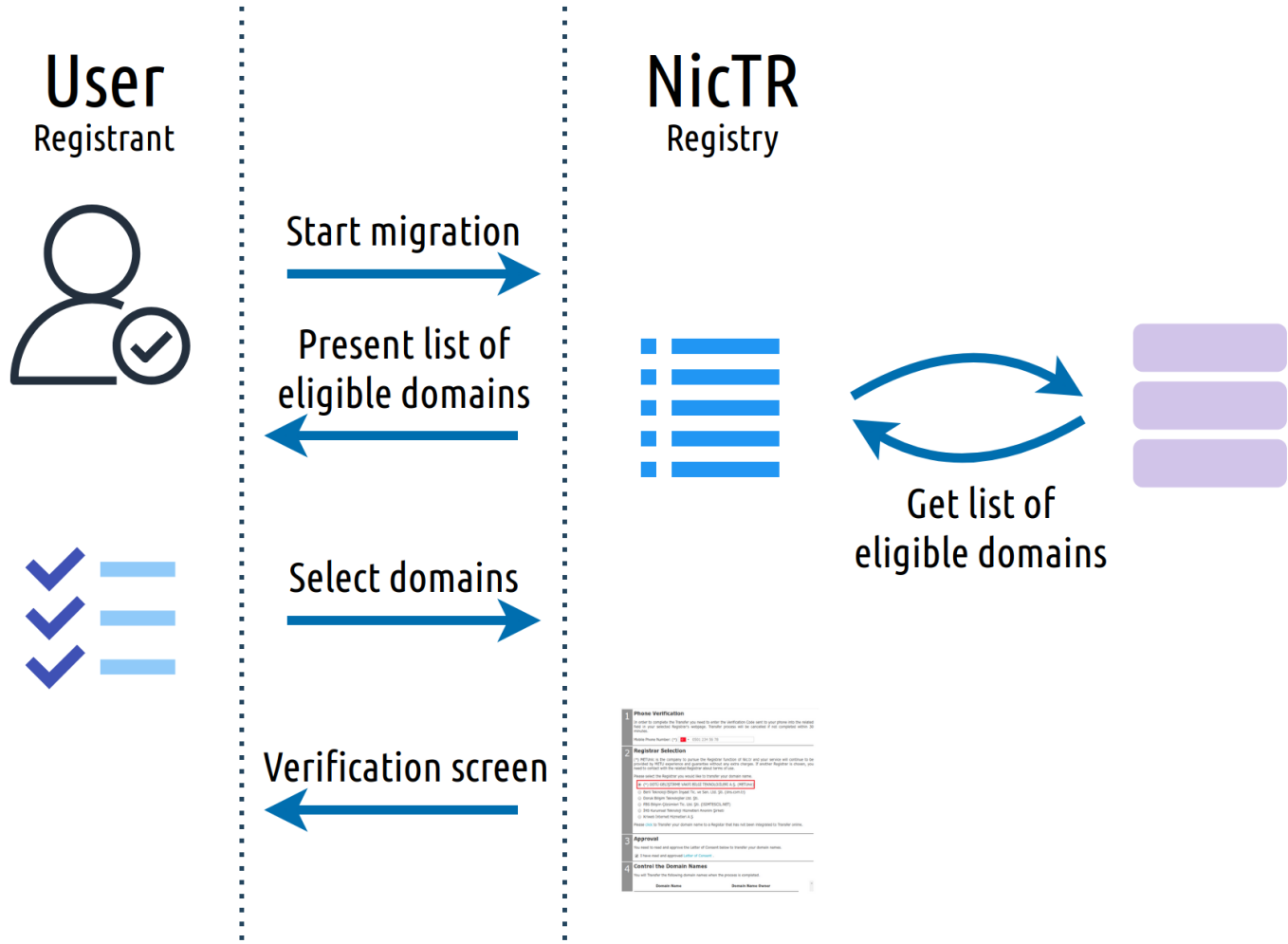
Requirements

- A user friendly system: increase engagement
- Allow bulk operations: encourage migration of as many domains as possible
- Free of charge: no fees for registrars, renewal is not mandatory
- Clean documentation: registrar integration is crucial
- No service interruption: everything should be seamless
- Should be secure and traceable

NicTR Migration - Flow (1)



NicTR Migration - Flow (2)



NicTR Migration - Verification Screen

1

Phone Verification

In order to complete the Transfer you need to enter the Verification Code sent to your phone into the related field in your selected Registrar's webpage. Transfer process will be cancelled if not completed within 30 minutes.

Mobile Phone Number: (*)  0501 234 56 78

2

Registrar Selection

(*) METUnic is the company to pursue the Registrar function of Nic.tr and your service will continue to be provided by METU experience and guarantee without any extra charges. If another Registrar is chosen, you need to contact with the related Registrar about terms of use.

Please select the Registrar you would like to transfer your domain name.

☒ (*) ODTÜ GELİŞTİRME VAKFI BİLGİ TEKNOLOJİLERİ A.Ş. (METUnic)

☐ Beril Teknoloji Bilişim İnşaat Tic. ve San. Ltd. Şti. (dns.com.tr)

☐ Doruk Bilişim Teknolojiler Ltd. Şti.

☐ FBS Bilişim Çözümleri Tic. Ltd. Şti. (ISIMTESCIL.NET)

☐ İHS Kurumsal Teknoloji Hizmetleri Anonim Şirketi

☐ Kriweb İnternet Hizmetleri A.Ş

Please [click](#) to Transfer your domain name to a Registrar that has not been integrated to Transfer online.

3

Approval

You need to read and approve the Letter of Consent below to transfer your domain names.

☒ I have read and approved [Letter of Consent](#) .

4

Control the Domain Names

You will Transfer the following domain names when the process is completed.

Domain Name	Domain Name Owner
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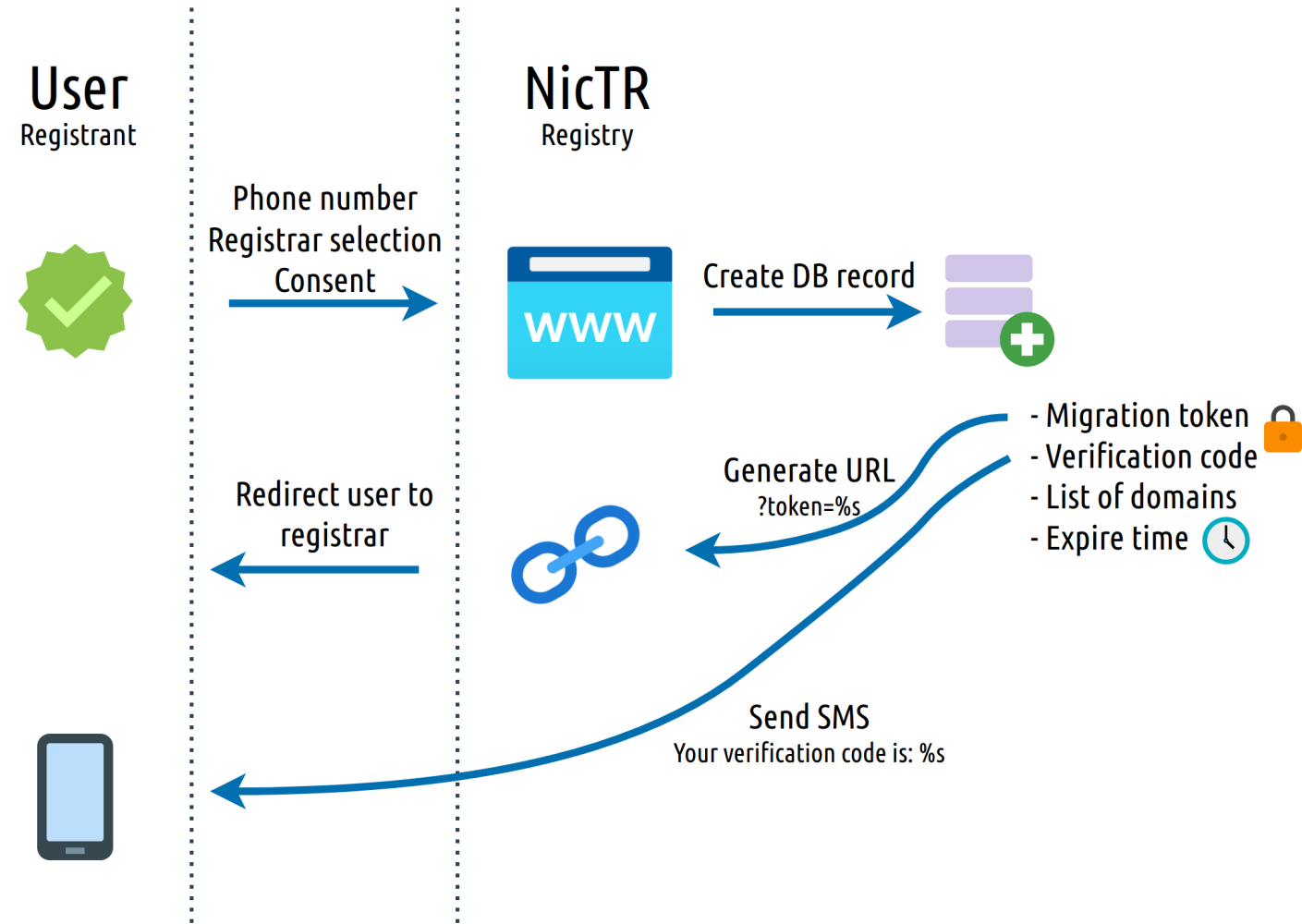
➤ Phone number to receive the verification code.

➤ List of registrars integrated with the migration system.
Also a link to cancel automated migration and initiate a manual process for registrars that are not integrated.

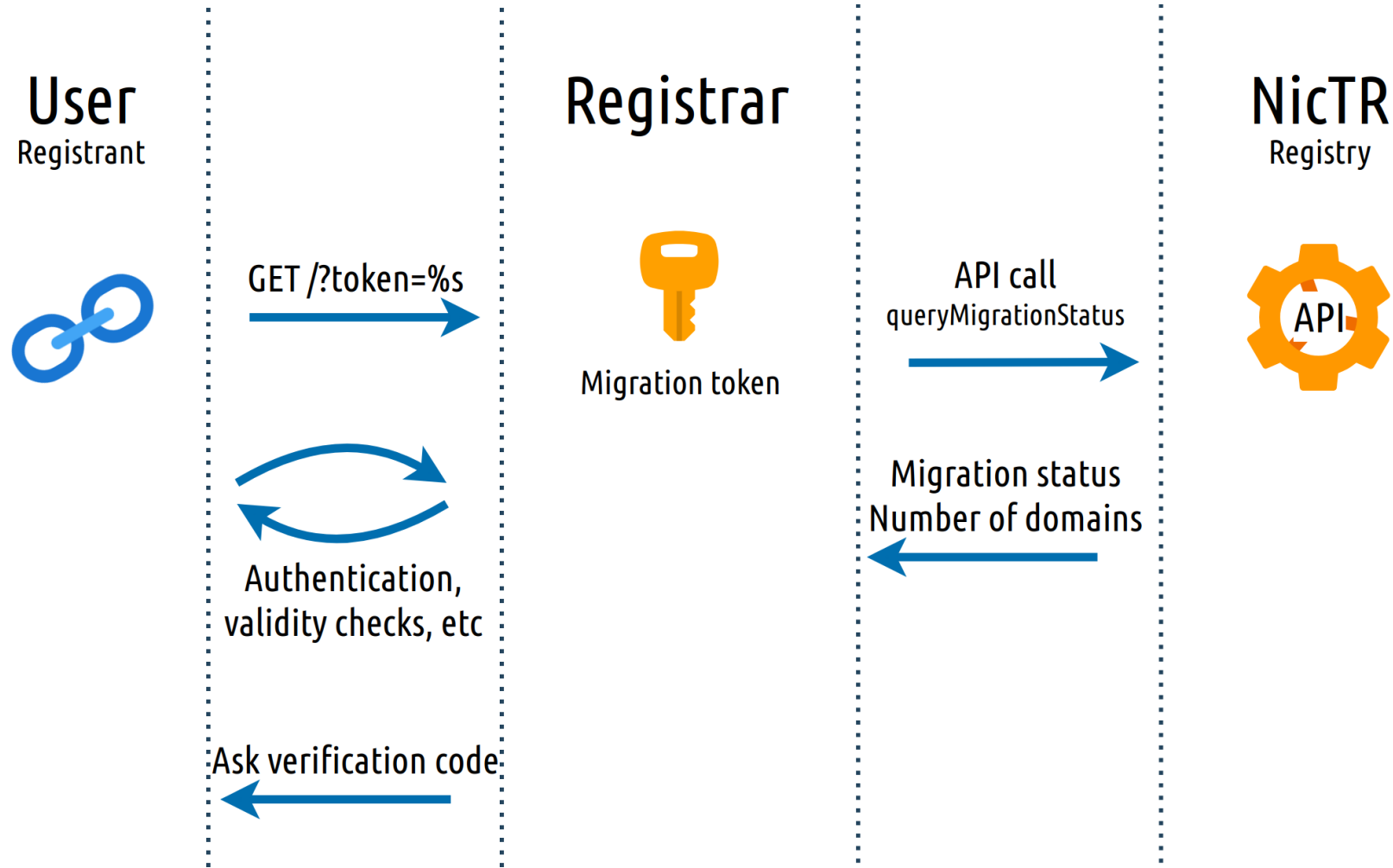
➤ Approval of consent for the transfer of domains.

➤ List of domains selected in the previous step.

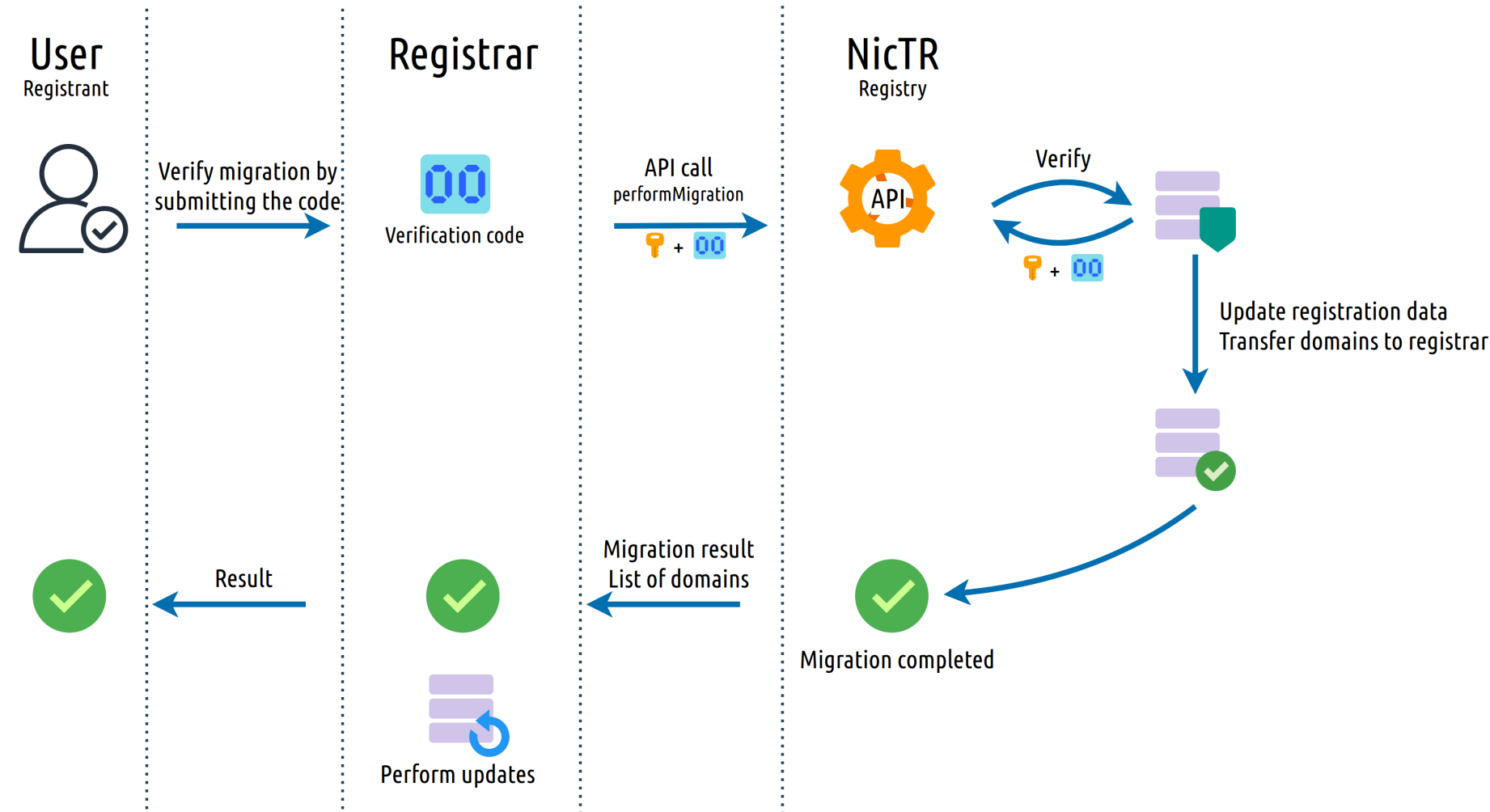
NicTR Migration - Flow (3)



NicTR Migration - Flow (4)



NicTR Migration - Flow (5)



NicTR Migration

Naming: Why not transfer?

- It is not a regular domain transfer
 - Different purpose & process
- A regular transfer was supposed to be implemented at TRABIS - avoid future naming conflict.

NicTR Migration

Integration of Registrars

Handle redirects from NicTR

- Provide a redirection URL to NicTR
- Migration token and nic handle shared via HTTP GET method

Example 1: `https://example.org/app?token=%s&nic_handle=%s`

Result: `https://example.org/app?token=a1b2c3d4e5f6&nic_handle=nic1-metu`

Example 2: `https://example.org/handle/migration/%s/%s`

Result: `https://example.org/handle/migration/a1b2c3d4e5f6/nic1-metu`

NicTR Migration

Integration of Registrars

New functions added to the API

- `queryMigrationStatus`
 - migration token + nic handle
- `performMigration`
 - migration token + nic handle + verification code

NicTR Migration

Why a verification code?

- Prevents immediate completion of the migration by the registrar, requiring user interaction.
- Improves security: something only the registry and registrant knows.
- Ensures that the user who initiated the migration at registry is the same as the one who completed it at the registrar.

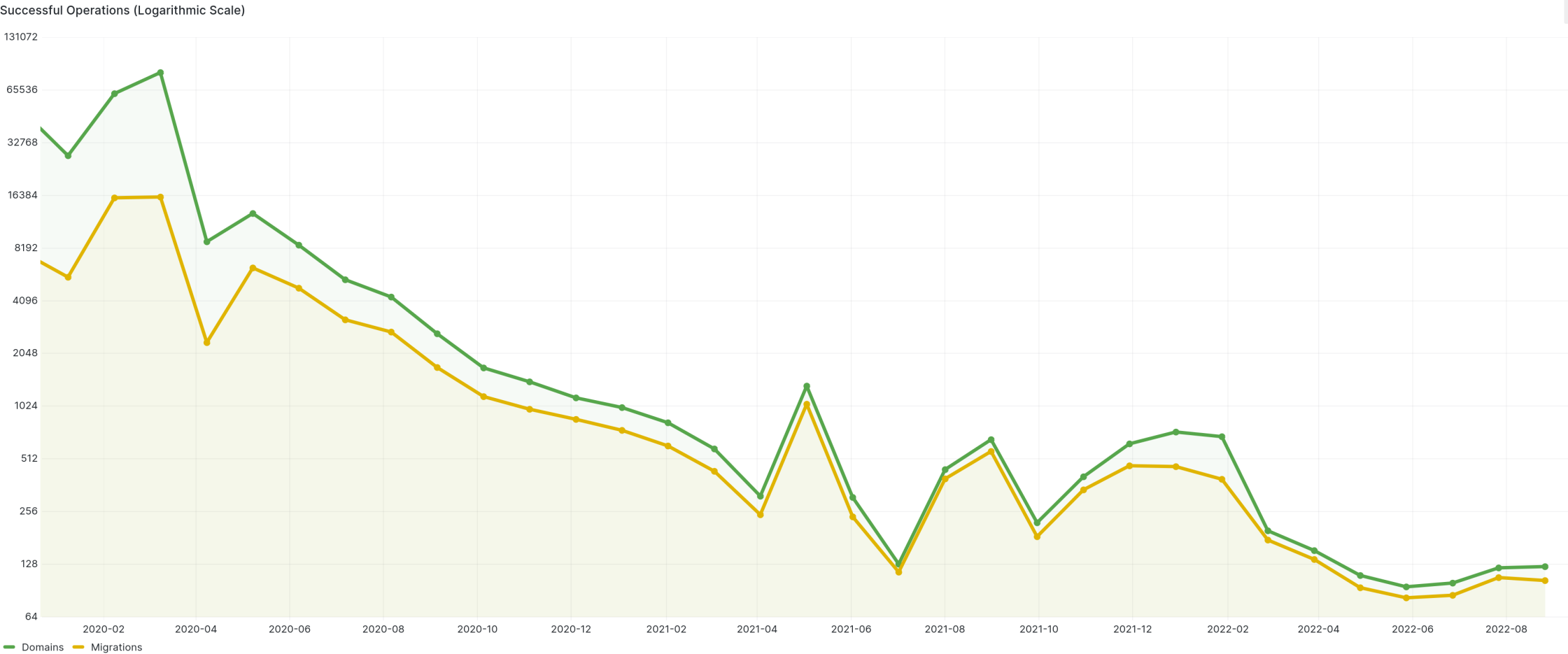
Why via SMS?

- Leaves a trace (phone number) of the person who performed the migration.

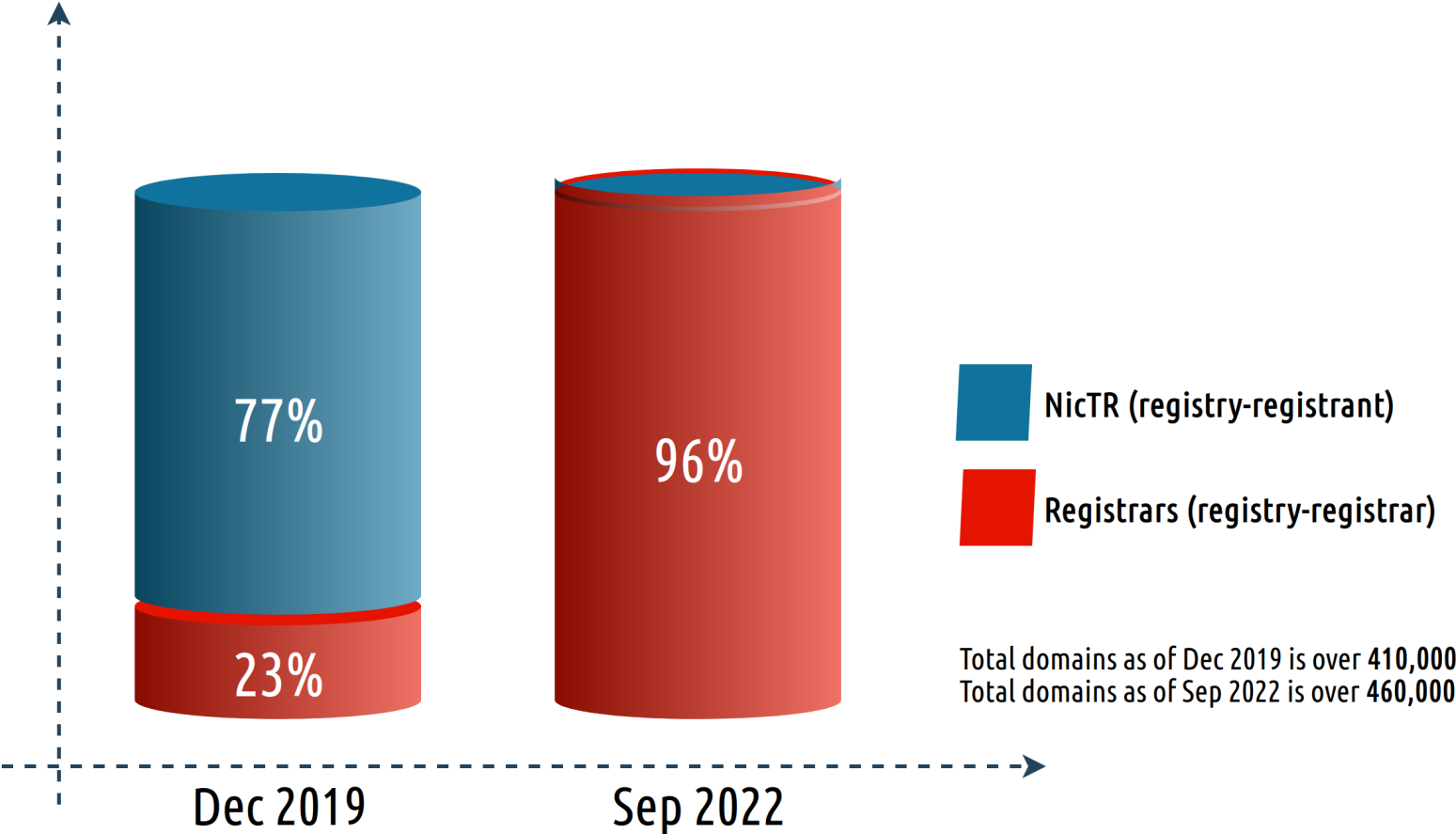
Results

- The migration system released on December 23, 2019.
- 6 registrars were ready on the day of launch.
- All active registrars integrated into system over time.
- A series of announcements were made to the registrants and contacts of domain names.
- No serious complaints or unauthorized takeovers of domain names are reported.
- **277,519** domain names were transferred to registrars through **76,179** migration operations.

Migrating .TR Domains from Registry to Registrars



Domain Distribution — Dec 2019 vs Sep 2022



Thank you all for your time.