

# **.cat** privacy by default

(even before the GDPR and the  
Temporary Specification)

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# About .cat

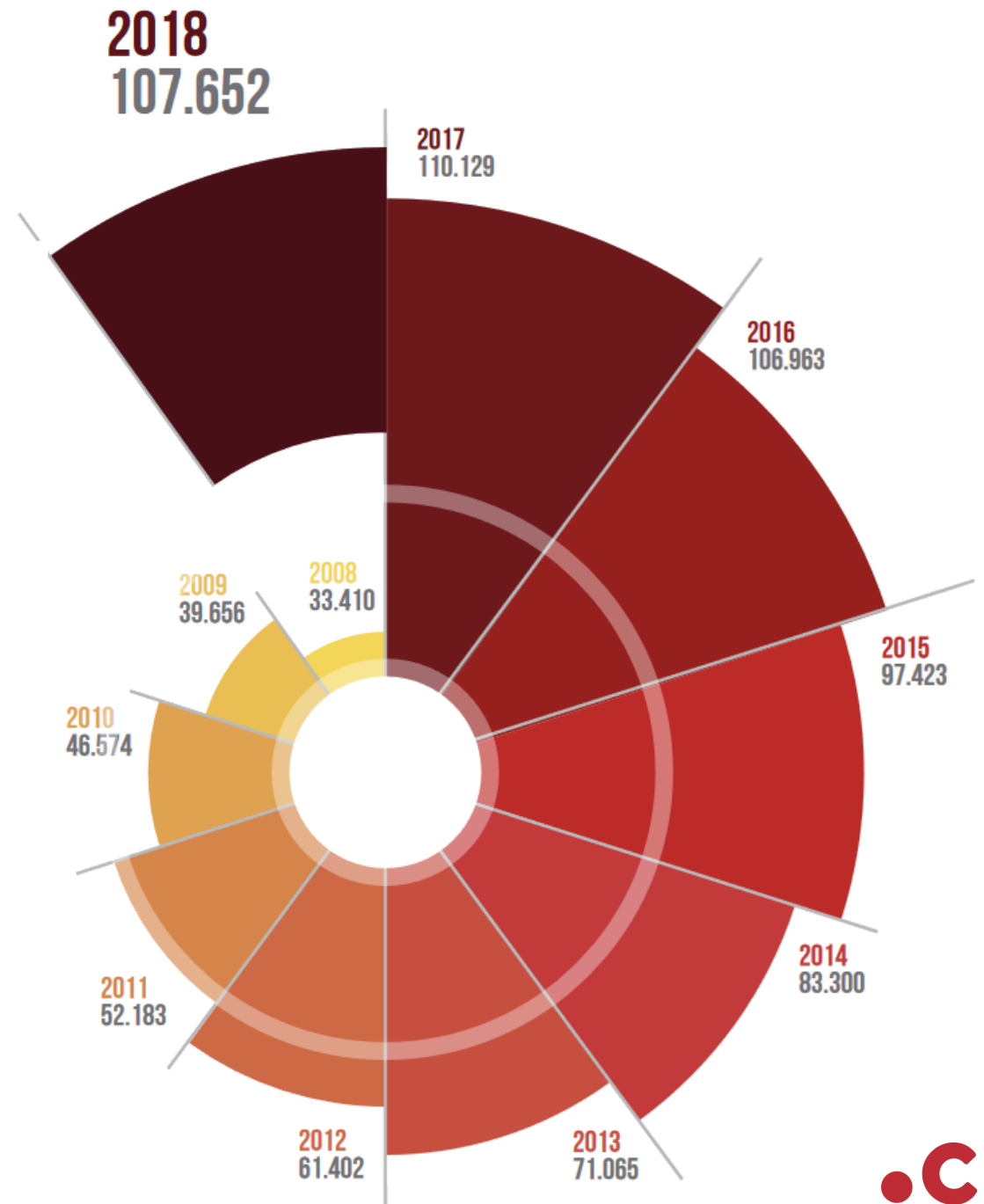


- Catalan-speaking community
- 13M inhabitants area  
10M speakers
- Managed by Fundació  
puntCAT, non-profit NGO

.cat

# About .cat

- Approved on 2005  
Launched on 2006
- 108K domains
- Staff:
  - 8 full-time + 4 part-time
  - 3 Technical Team (2F + 1P)



# .cat backend

- Provided by CORE  
TANGO SRS solution
  - Based in Dortmund (Germany)  
Redundancy in Amsterdam (Netherlands)
  - 7 secondary servers
    - 1 Barcelona + 1 Madrid
    - 3 Europe
    - 2 Rest of the world
- } 4 Anycast



# .cat privacy model

.cat privacy model basis

Free for  
everybody

Domain-  
based

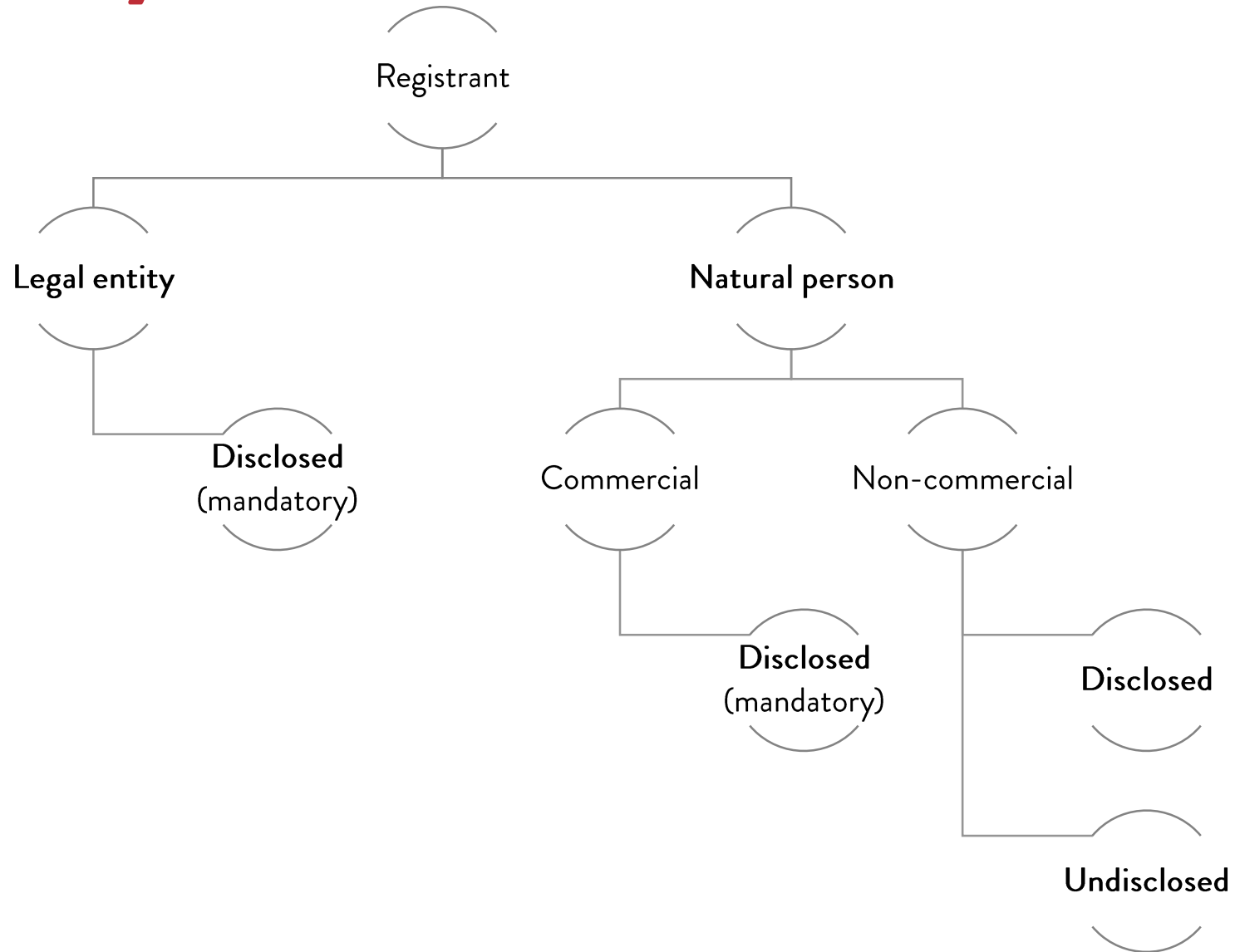
EPP  
compatible

Selection at  
registrar level

Self-selection

# .cat privacy model

.cat registrant types



# Privacy model legal framework

## ➤ Consultations:

- ApdCAT – Agència de Protecció de Dades de Catalunya
- AEPD – Agència Española de Protección de Datos
- Art. 29 Data Protection Working Party

## ➤ Recommendations:

- GAC

## ➤ Results:

- Amendment to the Registry Agreement, approved - fall 2012
- Included directly in the new .cat RAA renewal - fall 2015

# Implementation

## Registry

- New EPP extension, involving:
  - domain:create
  - domain:update
  - domain:info
- Adapt RDS / Whois output

## Registrar

- Add new options for the registrant during the creation and the updating processes
- Adopt new transfer requirements for undisclosed domains



# Implementation

## EPP Extension for Domain-Based privacy – formal syntax

### Create Extension + disclosureType

```
<complexType name="createType">
  <sequence>
    <element name="disclosure" type="prv:disclosureType"/>
  </sequence>
</complexType>

<complexType name="disclosureType">
  <sequence>
    <choice>
      <element name="natural" type="prv:naturalType"/>
      <element name="legal" type="prv:legalType"/>
    </choice>
  </sequence>
</complexType>

<complexType name="naturalType">
  <attribute name="disclose" type="boolean" use="required"/>
</complexType>
```

### Update Extension

```
<complexType name="updateType">
  <sequence>
    <element name="chg" type="prv:chgType"/>
  </sequence>
</complexType>

<complexType name="chgType">
  <sequence>
    <element name="disclosure" type="prv:disclosureType"/>
  </sequence>
</complexType>
```

### Info Extension

```
<complexType name="infDataType">
  <sequence>
    <element name="disclosure" type="prv:disclosureType"/>
  </sequence>
</complexType>
```

# Implementation

## EPP Extension for Domain-Based privacy – real domain:create example

```
<?xml version="1.0" encoding="UTF-8"?>
<epp xmlns="urn:ietf:params:xml:ns:epp-1.0">
  <command>
    <create>
      <create xmlns="urn:ietf:params:xml:ns:domain-1.0">
        <name>martifigueras.cat</name>
        <period unit="y">1</period>
        <ns>
          <hostObj>ns1.cdmon.net</hostObj>
          <hostObj>ns2.cdmon.net</hostObj>
          <hostObj>ns3.cdmon.net</hostObj>
        </ns>
        [...]
      </create>
    </create>
    <extension>
      <create xmlns="http://xmlns.corenic.net/epp/privacy-1.0">
        <disclosure>
          <natural disclose="false"/>
        </disclosure>
      </create>
      [...]
    </extension>
    [...]
  </command>
</epp>
```

# Implementation

## EPP Extension for Domain-Based privacy – whois output undisclosed domain

```
[Querying whois.cat]
[whois.cat]
Domain Name: masoliver.cat
Registry Domain ID: 935439-D
Registrar WHOIS Server: whois.dinahosting.com
Registrar URL: https://dinahosting.com
Updated Date: 2018-10-19T20:46:16.417Z
Creation Date: 2011-12-11T18:51:09.870Z
Registry Expiry Date: 2018-12-11T18:51:09.870Z
Registrar Registration Expiration Date:
Registrar: Dinahosting s.l.
Registrar IANA ID: 1262
Registrar Abuse Contact Email: abuse-domains@dinahosting.com
Registrar Abuse Contact Phone: +34.981040200
Reseller:
Domain Status: clientDeleteProhibited https://icann.org/epp#clientDeleteProhibited
Domain Status: clientTransferProhibited https://icann.org/epp#clientTransferProhibited
Registry Registrant ID:
Registrant Name:
Registrant Organization:
Registrant Street:
Registrant City:
Registrant State/Province:
Registrant Postal Code:
Registrant Country:
Registrant Phone:
Registrant Phone Ext:
Registrant Fax:
Registrant Fax Ext:
Registrant Email:
Registry Admin ID:
Admin Name:
Admin Organization:
Admin Street:
Admin City:
Admin State/Province:
Admin Postal Code:
Admin Country:
Admin Phone:
Admin Phone Ext:
Admin Fax:
Admin Fax Ext:
Admin Email:
Registry Tech ID:
Tech Name:
Tech Organization:
Tech Street:
Tech City:
Tech State/Province:
Tech Postal Code:
Tech Country:
Tech Phone:
```

```
Tech Phone Ext:
Tech Fax:
Tech Fax Ext:
Tech Email:
Registry Billing ID:
Billing Name:
Billing Organization:
Billing Street:
Billing City:
Billing State/Province:
Billing Postal Code:
Billing Country:
Billing Phone:
Billing Phone Ext:
Billing Fax:
Billing Fax Ext:
Billing Email:
Name Server: ns2.arvixeshared.com
Name Server: ns1.arvixeshared.com
DNSSEC: unsigned
Canonical Name: masoliver.cat
IDN Tag: ca
URL of the ICANN Whois Inaccuracy Complaint Form: https://www.icann.org/wicf/
>>> Last update of Whois database: 2018-10-21T16:41:22.464Z <<<

For more information on Whois status codes, please visit https://icann.org/epp

This domain has chosen privacy settings according to the European
data protection framework provisions.

Should you need to contact the registrant, please see
http://www.domini.cat/contact-registrant

For law enforcement and trademark protection purposes, see
http://www.domini.cat/whois-access

In case of technical problems, please see
http://www.domini.cat/report-problem
```

# Implementation

EPP Extension for Domain-Based privacy – transfer procedure

## Typical procedure – disclosed domains



## Adding authinfo – undisclosed domains



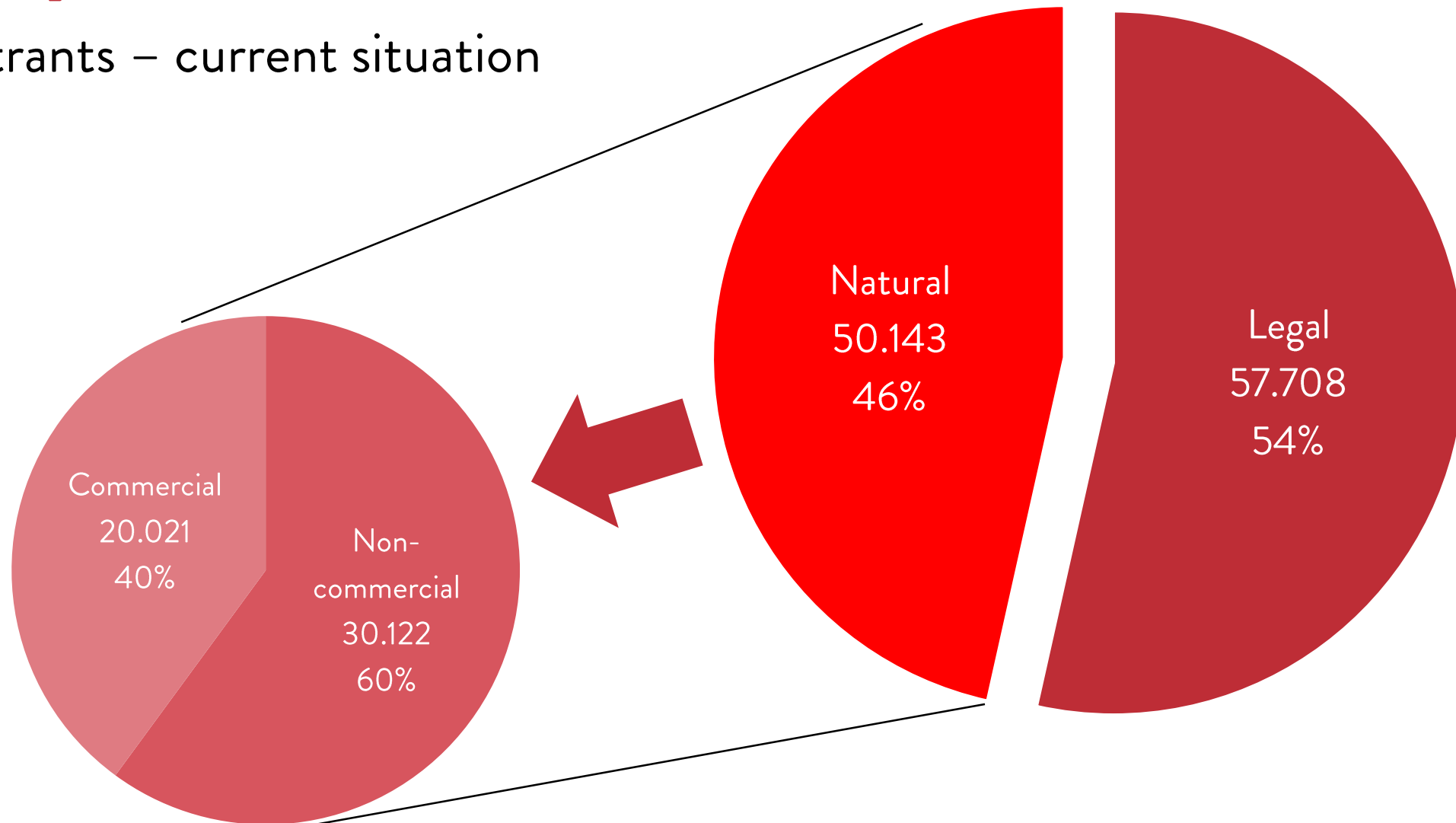
# Adoption

## Registrars

- First version available for testing - Fall 2012
- Early adopters – 7 most important .cat registrars
  - Publicly available - January 2013
  - Available > 80% domains – 1'5 years later
- Newly accredited registrars – implemented by default \*

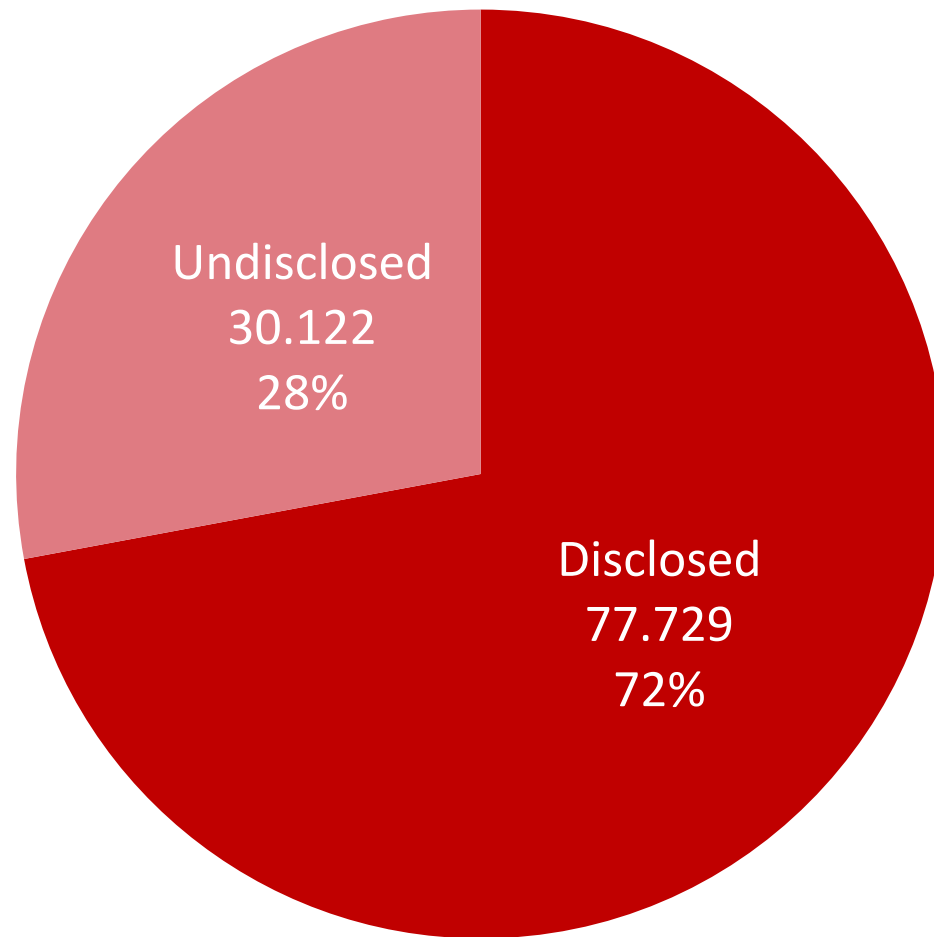
# Adoption

Registrants – current situation



# Adoption

Registrants – current situation



# Issues

- Registrants don't know this feature
- Registrants have to open a ticket to modify their privacy settings
- Many registrars ask registrants to disable the privacy for transfers
  - Newcomers to the .cat market
  - Very large registrars
- \* Sometimes registrars set default policies
- Disabling this feature after deploying a new registrar website version



# Specification

... and then, it came the 17/05  
Temporary Specification ...

... and we continued offering this  
service to our Registrants!

# **.cat** privacy by default

(even before the GDPR and  
the Temporary Specification)

# Thank you!

Technical

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Legal

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