Declaration of nanomaterials in Sweden

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KEMI
Kemikalieinspektionen
Swedish Chemicals Agency

Background

“The Swedish Chemicals Agency shall investigate how an obligation to provide information about the occurrence of nanomaterials in chemical products upon registration in the Products Register could be designed, and how information about the presence of nanomaterials in articles could be provided to the Products Register.”

(Unofficial translation)

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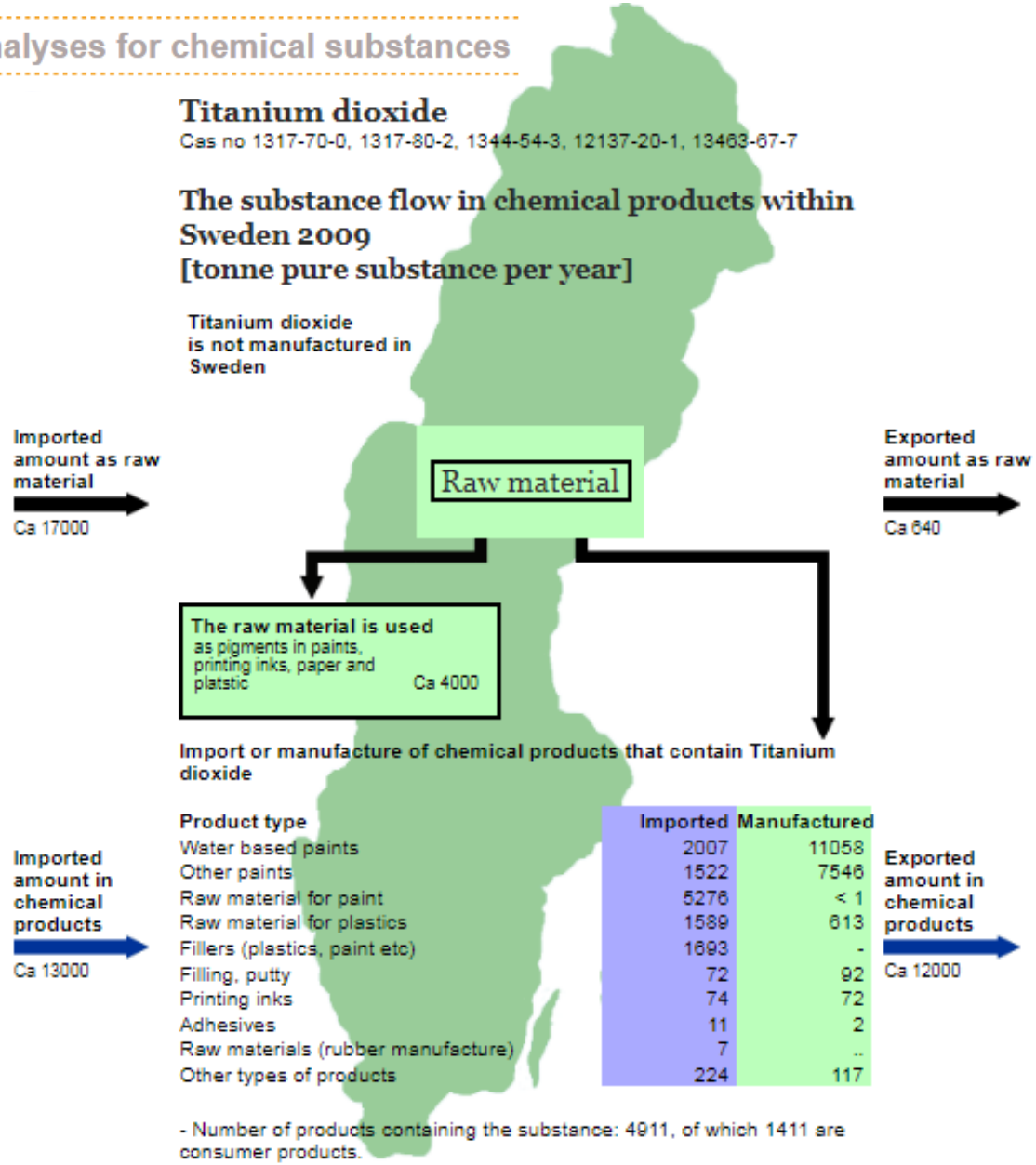
Purpose

- Overview of types, uses and amounts of nanomaterials in Sweden
  - Statistics
  - Flow analyses
  - Trends
  - Data extraction
- Regulatory development
- Basis for enforcement



Product type	Imported	Manufactured
Water based paints	2007	11058
Other paints	1522	7546
Raw material for paint	5276	< 1
Raw material for plastics	1589	613
Fillers (plastics, paint etc)	1693	-
Filling, putty	72	92
Printing inks	74	72
Adhesives	11	2
Raw materials (rubber manufacture)	7	..
Other types of products	224	117

- Number of products containing the substance: 4911, of which 1411 are consumer products.

- All data are from 2009 and retrieved from the Products Register if nothing else is stated.

.. Data are not available.
Data on amount, type of product or type of use are available but cannot be published, e.g. for secrecy reasons. This has been marked with two dots.

The Swedish Products Register

Who must register?

- Manufacturers or importers
- Third parties reporting on behalf of manufacturers/importers
- Those who, in their own name, package, repackage or change the product names
- Manufacturers of mixtures for further distribution
- Manufacturers or importers of notifiable chemical pesticides

What products need to be registered?

- Chemical products (custom tariff numbers)
- 100 kg or more per year and product

  → Nano in chemical products already obliged to register.

The Swedish Products Register – what is registered now?

Chemical products -

Basic information

Basic info

- Product name
- Custom tariff number
- Consumer or professional use
- Origin
- Hazard statements

Composition

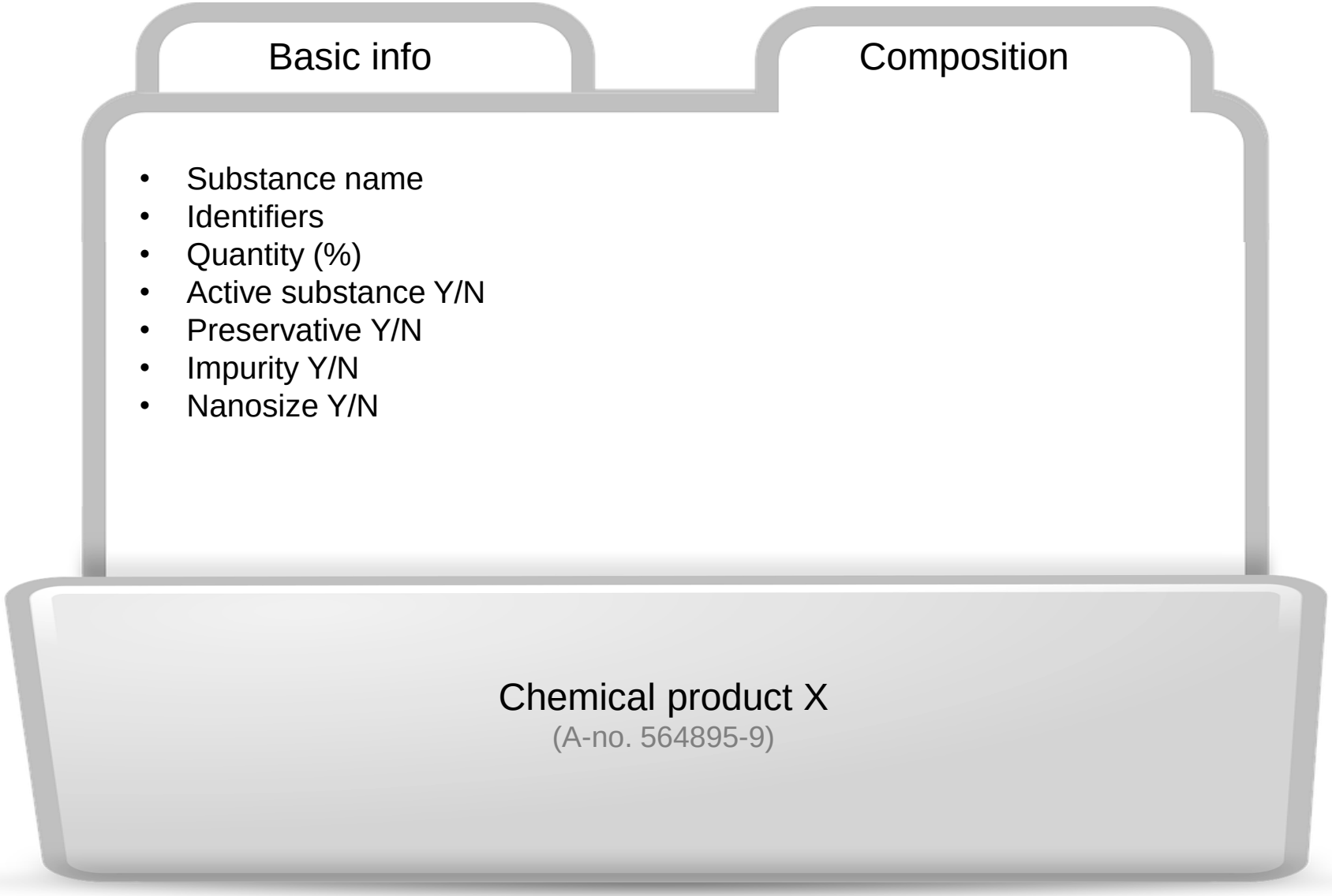
- Classification & Labelling according to CLP
- VOC (if paints or varnishes)
- Functional codes
- Sectors of use

Chemical product X
(A-no. 564895-9)

The Swedish Products Register – what is registered now?

Chemical products -

Composition



The Swedish Products Register and nanomaterials

What to register on nanomaterials?

Basic info

- Substance name/product name
- Identifiers
- Quantity (%)
- Active substance Y/N
- Preservative Y/N
- Impurity Y/N
- Nanosize Y/N

Composition

Nanospecific information

1. Classification according to CLP
2. Function of the nanomaterial in the specific product
3. Primary particle size
4. Agglomerate or aggregate size
5. Shape of the nanomaterial
6. Crystalline state
7. Surface area
8. Surface coating
9. Surface charge

Chemical product X

(A-no. 564895-9)

Ämnen

Ämnesnamn Phenol, polymer with formaldehyde

Ta bort

CAS-nr 9003-35-4

EG-nr 500-005-2

Funktion
- [ ] Beståndsdelen är ett verksamt ämne
- [ ] Beståndsdelen är ett konserveringsmedel
- [ ] Beståndsdelen är en förorening

Halt * 0 %

[ ] Ange haltintervall

Förekommer ämnet i nanostorlek i produkten?

[x] Ja

Är nanomaterialet ett pigment?

[ ] Ja

Fyll i nanodata

1. Klassificering av nanomaterialet enligt förordning (EG) nr 1272/2008

[ ] Ingen faroangivelse är tillämplig

Inga faroangivelser har valts.

Välj från lista

2. Funktion *

Funktion *

3. Primärpartikelstorlek *

Testmetod * Titel, Författare, Organisation, Version och Datum (Max 200 tecken)

Medelstorlek i nm * 0 - 1000 och inga decimal

Standardavvikelse ± nm * 0 - 1000 och inga decimal

4. Agglomererat eller aggregerat tillstånd

Inget agglomerat eller aggregerat tillstånd valt.

Lägg till +

5. Form *

Testmetod * Titel, Författare, Organisation, Version och Datum (Max 200 tecken)

Antal dimensioner mellan 1 och 100 nm * 0 - 100 och inga decimaler

Kvalitativ beskrivning av form *

6. Kristallstruktur om röntgendiffraktion har utförts

Ingen kristallstruktur är tillagd.

Lägg till +

7. Specifika ytarea *

Testmetod Titel, Författare, Organisation, Version och Datum (Max 200 tecken)

Ytarea m²/g

Standardavvikelse ± nm

8. Ytbehandling *

Testmetod Titel, Författare, Organisation, Version och Datum (Max 200 tecken)

Kemisk identifiering av ytbeläggning

Hydrofil eller hydrofob ytbeläggning ◉ Hydrofil ○ Hydrofob ○ Vet ej

9. Ytladdning *

Medium för mätning

Zetapotential i mV

pH vid mätning

Fördelningskurva (om tillgänglig) Testmetoden Zeta-metri ska användas

Medelstorlek

Standardavvikelse ± nm

The Swedish Products Register and nanomaterials

Product-in-Product (PiP)

90 % substance A

8 % substance B

2 % PiP-product X (A-no. 952395-1)

The Swedish Products Register and nanomaterials

Suppliers of
Product-in-Product (PiP)

- Cost free
- Provide data on exact composition
- Info always confidential

~~Basic info~~

- Substance name/product name
- Identifiers
- Quantity (%)
- Active substance Y/N
- Preservative Y/N
- Impurity Y/N
- Nanosize Y/N

Composition

Nanospecific information

1. Classification according to CLP
2. Function of the nanomaterial in the specific product
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Chemical PiP-product X
(A-no. 952395-1)

Exemptions

- Small companies (annual turnover of less € 500 000)
- Pigments
- Unintentionally produced nanomaterials

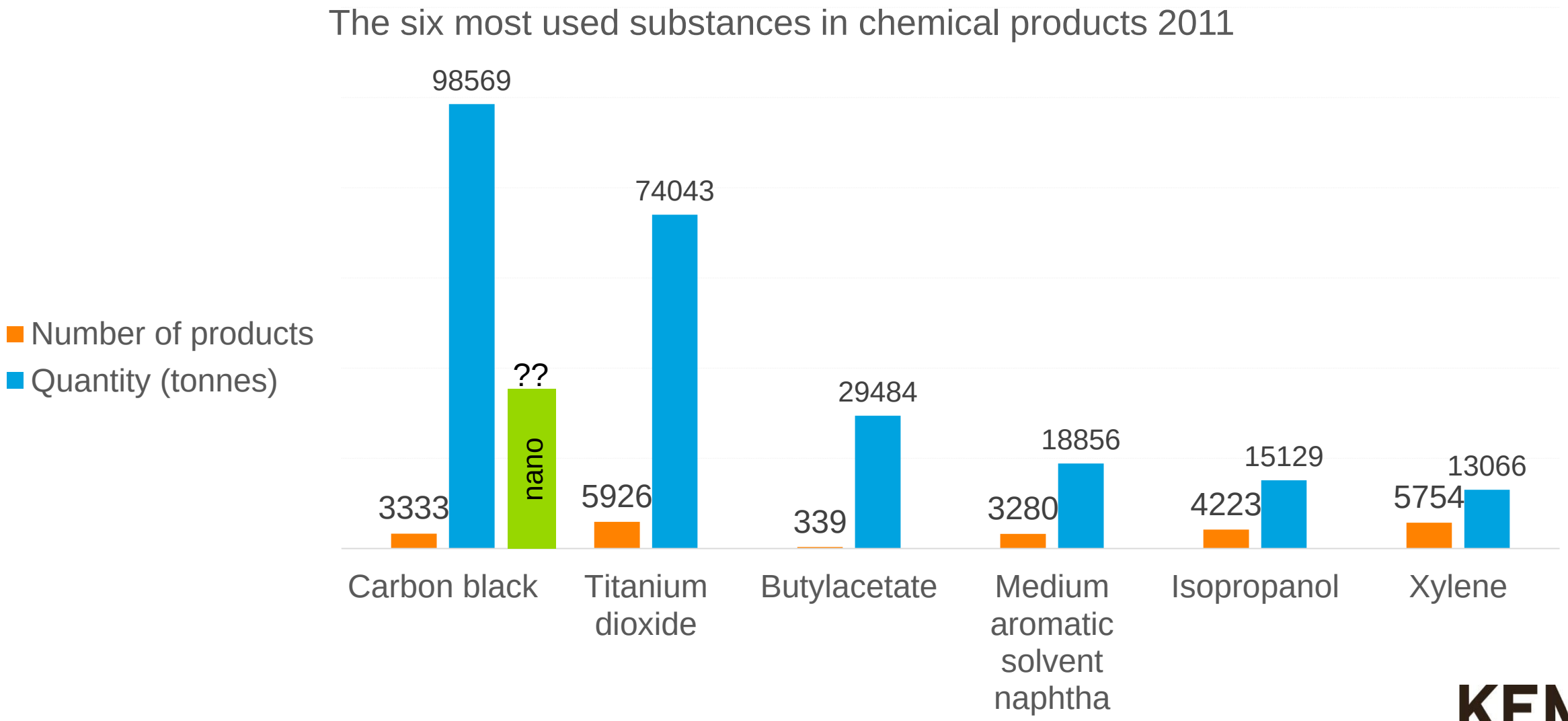
→

- Limited information required
- 3 year evaluation period

Timeline

2015	2016	2017	2018	2019	2020	2021	2022
Investigation of possible registration of NM	Public consultation	Notification to the EU Commission - Proposed regulatory changes	New Swedish regulations from January 1st - Technical development - Information campaign	First registration of NM from January 1st to February 28th	Preliminary statistical publication		*3 year Evaluation*

Future statistics?



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About the register:

https://www.kemi.se/en/products-register/compulsory-declaration-for-nanomaterial

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Thank you