



# "Stockholm County Council will decrease its environmental impact caused by hazardous chemicals"

- Nice chemical products
- Not cause allergy or hazardous to aquatic life
- Nice articles and consumables
- No foreign substance exposure to patients or employees
- Contribute to a toxic free circular economy

### Phasing out PVC

- Formal decision by county council board in 1997
- Focus on
  - Flooring
  - Tubing
  - Office equipment
  - Information boards used in public transport areas

#### Main reasons in 2016

- Release of problematic substances during production
- Uncertainty around alternative plasticizers "the precautionary principle"
- Recycling?



### Our most valuable tool -Procurement



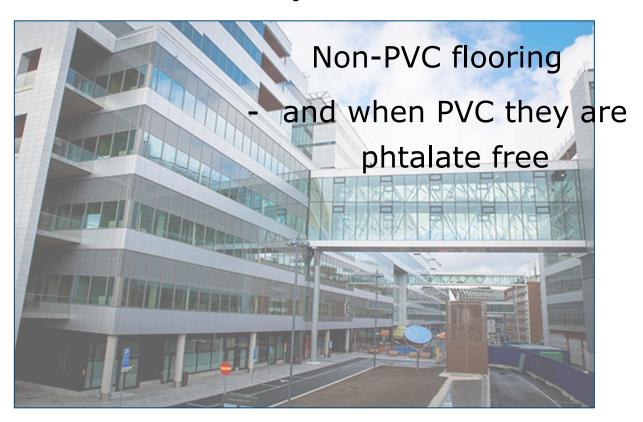
### Successful examples of substitution of EDCs

- Examination gloves
- Flooring
- When PVC remains; phtalates are replaced by alternatives





## How to build a toxic free hospital



### How safe are the alternatives?

- Most common alternatives
- COMGHA
- DINCH
- DEHT
- DEHA
- TOTM

> Swetox

Evaluation of data for 6 alternative plasticizers

### Are the alternatives more expensive?

Product	Year	Price vinyl product	Price PVC free produc	Price today PVC free tproduct	Difference
Examination gloves (nitrile)	2003	0,23	1	0,21	± 0 %
Straight suction catheters	2007	1,05	2,45	1,95	+ 100 %
Urinary catheters	2003	10,50	13,00	10,50	± 0 %

### Success factors

- 1. Large volumes (several public oper same demands)
- 2. Regular evaluation of function of alternative products
- 3. Dialogue with suppliers and manufacturers as part of the procurement process
- 4. Transparent procedure; clear meassage path

### Phase-out list

Which properties do we seek to avoid?

Very toxic, allergenic, cancinogenic, mutagenic, toxic to reproduction, endocrine disruptors and environmental hazards

Stockholm County Council's phase-out list for chemicals hazardous to the environment and human health 2012–2016

Valid with effect from 2,908,201;

