

Swedish Life Saving Society

Drowning in the Nordic Countries

RS Noatun, 18 January 2023

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Introducing the **scope**



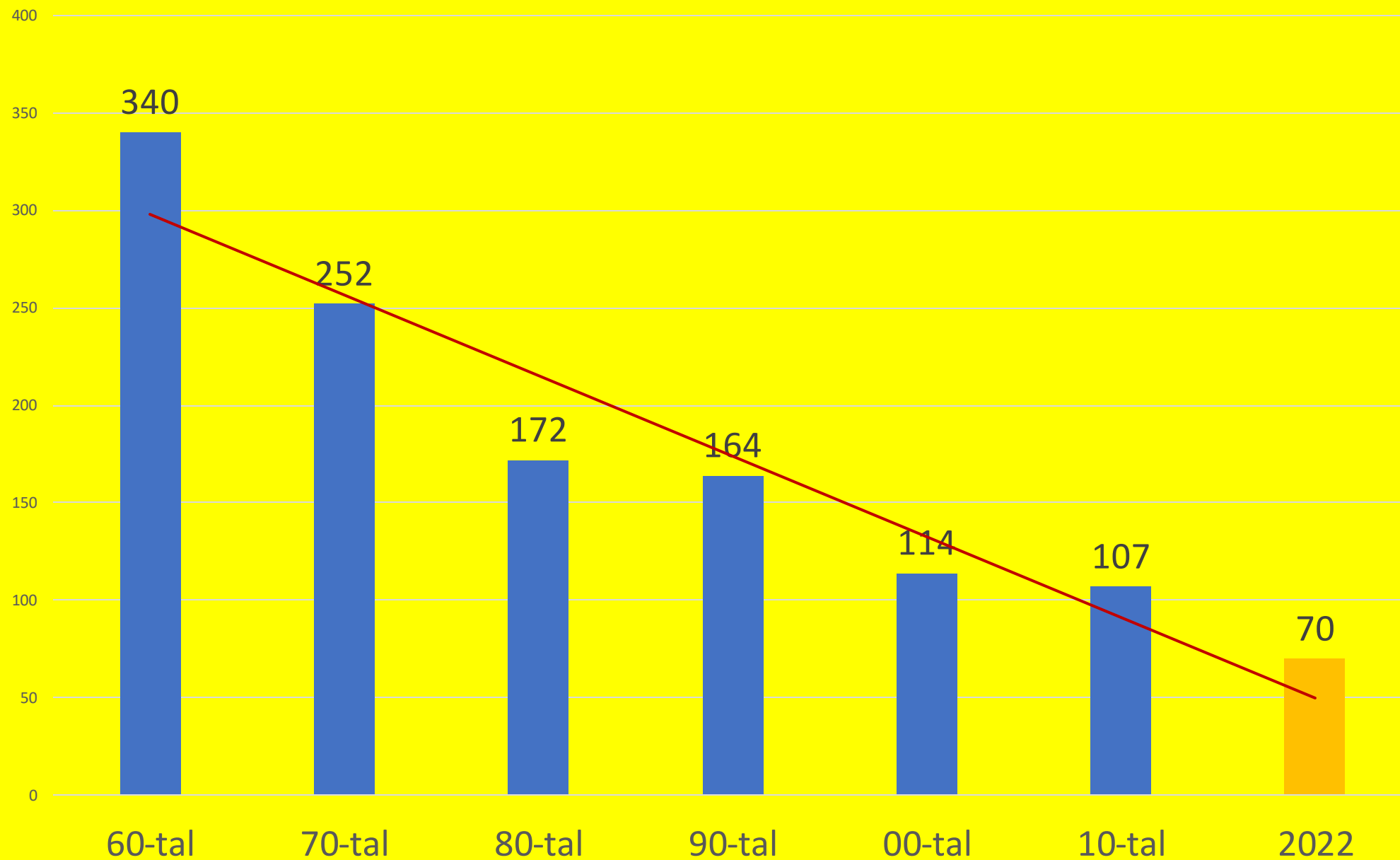
Fatal accidental drowning

	aprox per year(n)	/100 000
Worldwide	270 000	3,4
Europé	19 444	2,6
Nordic countries	300	1,3



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Development since 1960 in Sweden.



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TOTALT 2021



97

TOTALT 2022



70

PER 100 000 INVÅNARE



0,7

OMKOMNA 2022 UPPDELAT PÅ KÖN OCH ÅLDER



55/5



7/0



UPPGIFT
SAKNAS

3



0-18 ÅR 19-59 ÅR 60-ÅR
UPPGIFT SAKNAS

BAD



26

BÅT



14

FISKE



1

IS



4

ÖVRIGT



25

GEOGRAFISK FÖRDELNING



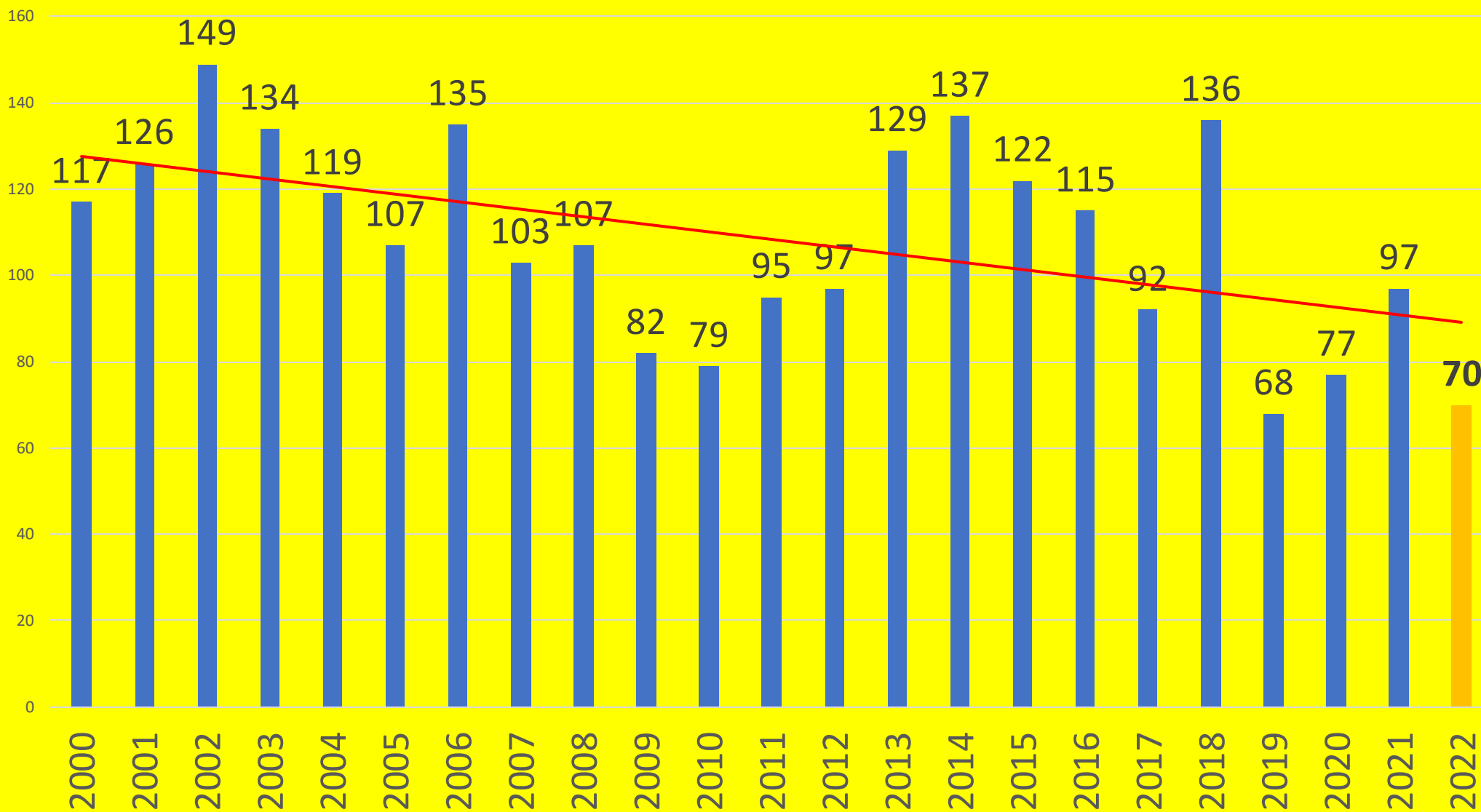
3 personer omkomna på internationellt vatten



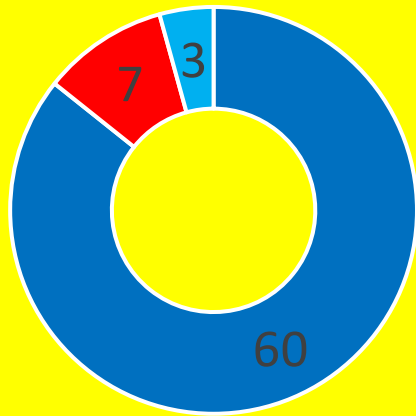
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Fatal accidental drowning in Sweden

2000-2022, n=2493 (~108/year)

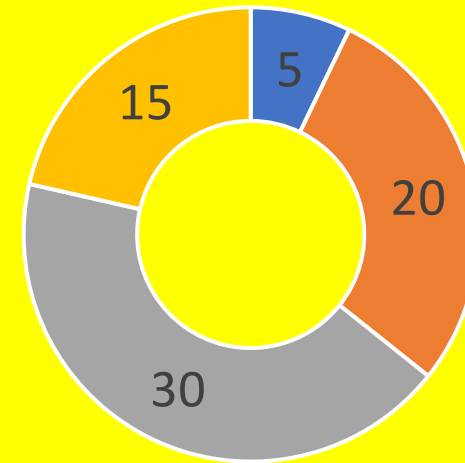


Gender 2022



■ man ■ kvinna ■ Uppgift saknas

Age 2022

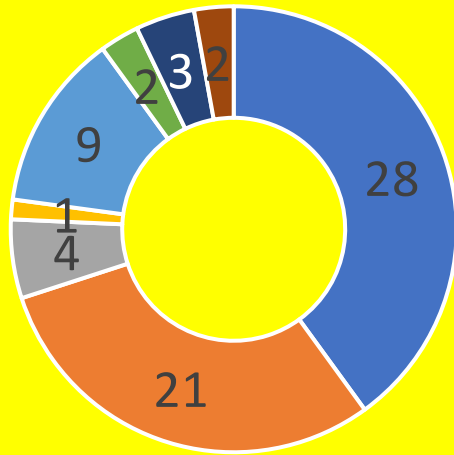


■ 0-18 år ■ 19-59 år ■ 60 år< ■ Uppgift saknas



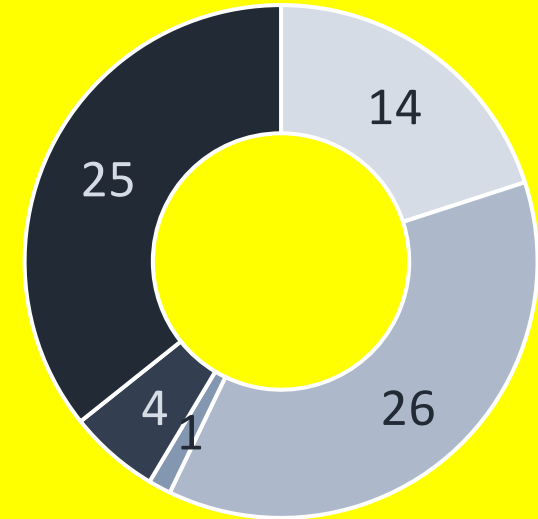
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Water 2022



■ Lake ■ Sea ■ River ■ Pond
■ Stream ■ Public Pool ■ Private Pool ■ Others

Activity 2022

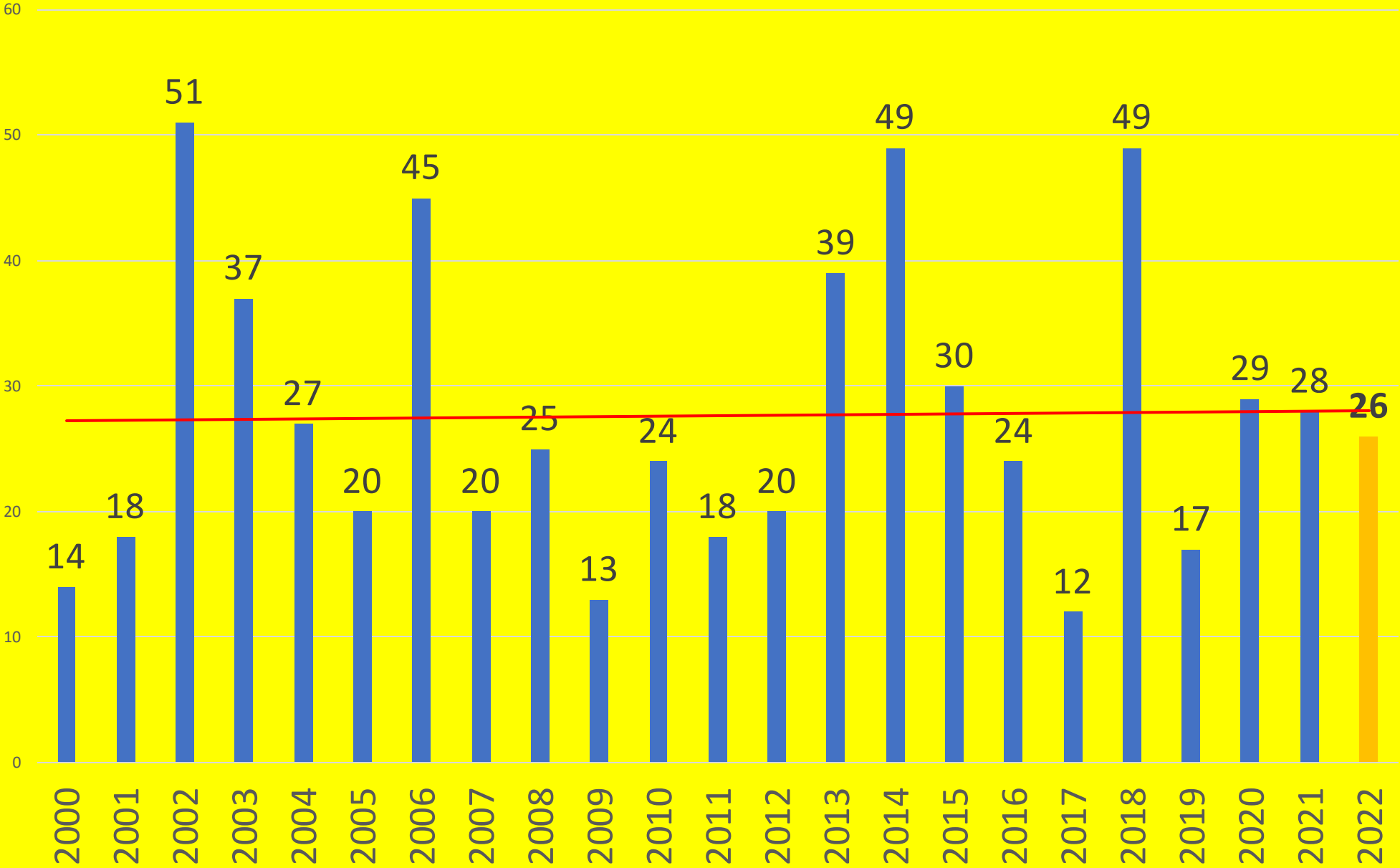


■ Boat ■ Bath ■ Fish ■ Ice ■ Others



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Bath n=635 (~28)





**Karolinska
Institutet**



Incidence and characteristics of drowning in Sweden during a 15 years period 2003-2017

*Claesson A. RN Associate professor ¹, Krig A. MD ², Jonsson M. M.Sc? ¹, Ringh M. MD Ph.D ¹,
Svensson L. MD Professor ¹, Forsberg S. MD Associate professor ¹, Nord A RN, PhD¹, Nordberg P. MD PhD¹,
Olausson M³, Jacobsson A. MD ³, Nilsson L. MD, Associate professor ⁴, Hollenberg J. MD Associate professor ¹.*

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Ordförande Svenska HLR-rådet

Leg. Ambulanssjuksköt. / Docent

Centrum för hjärtstoppsforskning vid Karolinska institutet, Solna



Mikael Olausson

Svenska Livräddningssällskapet

Områdesansvarig Säkerhet

Vice Ordförande ILSE Rescue Commission

Key findings - Short Summary of the Results



Over 15 years a total of 6,609 unique drowning cases over 15 years, with a mean overall incidence of 4.66/100 000 inhabitants occurred, e.g. average of 440 persons per year.



Non-fatal drowning cases represented 51% (n=3,363) of all cases, with a ratio of non-fatal vs fatal ratio of 1:1 overall.



A total of 4416 (67%) were males. The median age of overall drownings is 49 years (IQR 23-67)



Overall drowning incidence decreased from 5.6 to 4.1/100 000 during the period.



Among all drownings 1269 (19%) were children 0-17 year.



Overall drowning among children 0-17 year increases from 4,6 to 4,7/100'000. The increase stands out among children 0-4 year, with 7,4 to 8,1/100'000.

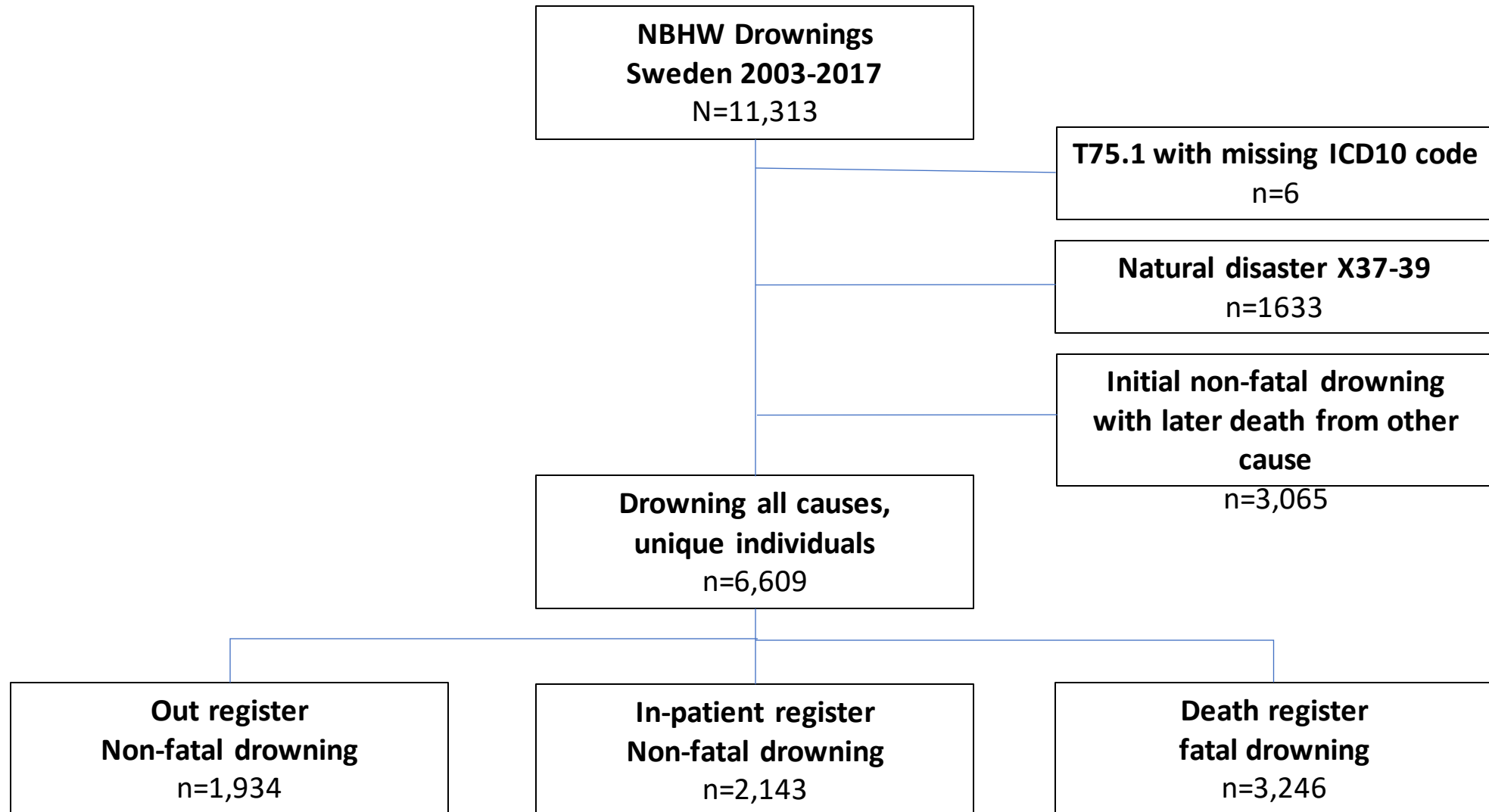


603 (9%) of all drownings occurs in pool (ICD-10 W67-68). 562 (93%) is non-fatal and 41 (7%) is fatal drownings.



1557 (24%) is suicidal, 587 (38%) is non-fatal and 970 (62%) is fatal.

Figure 1. Flow chart, drowning - all cause Sweden 2003-2017

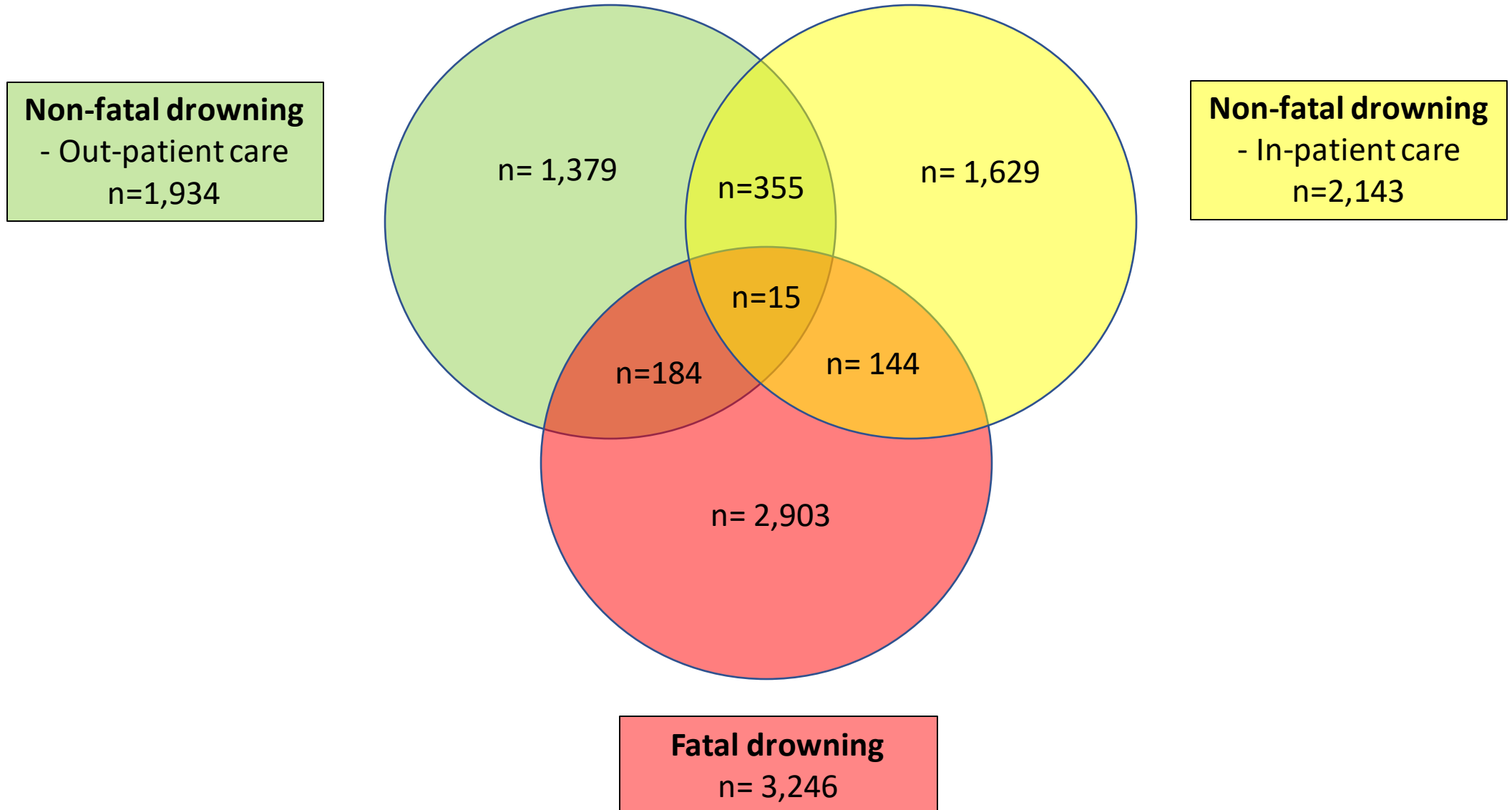


1) Missing data on characteristics and underlying coding for ICD10 categories

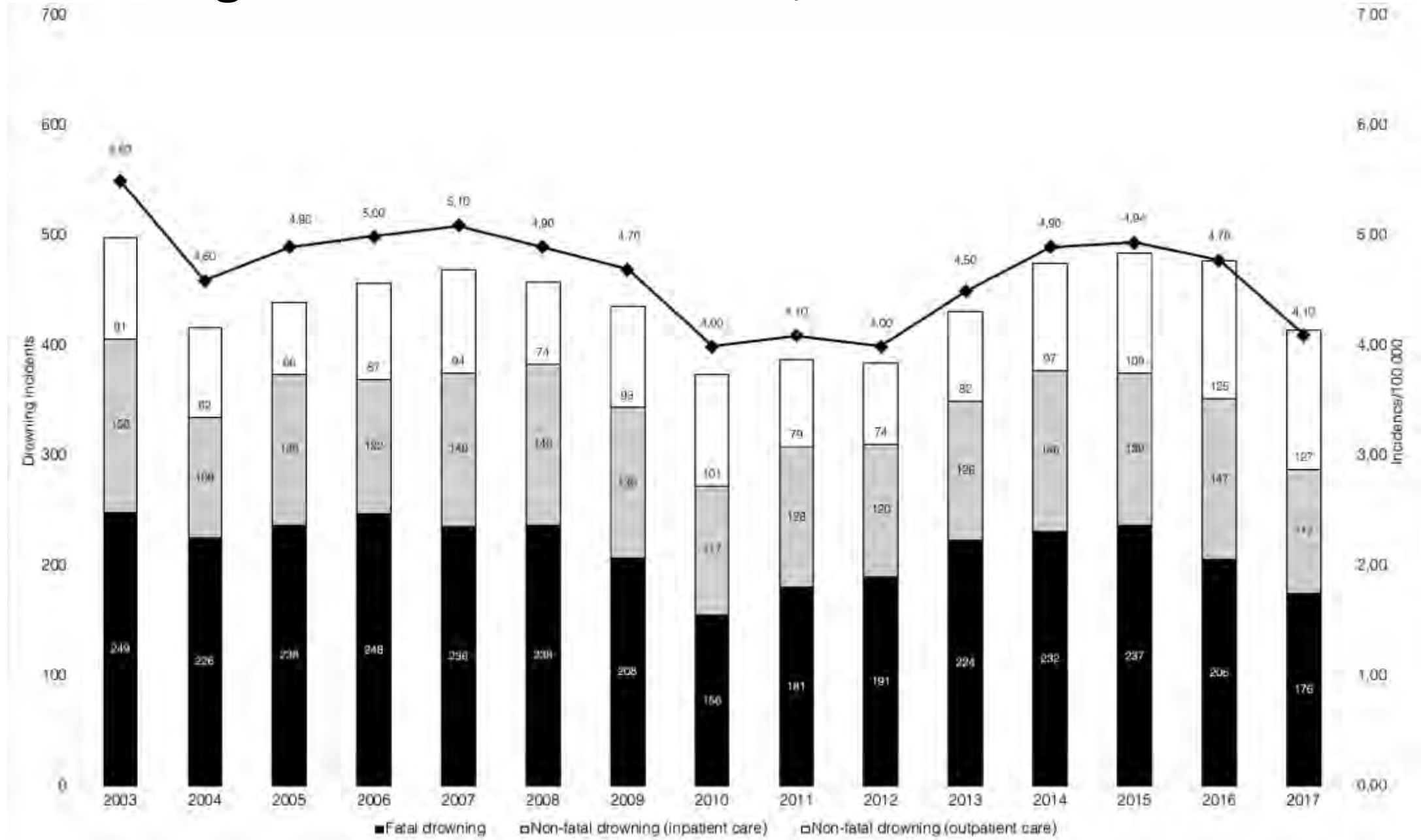
2) Primarily cases from: Tsunami in east Asia on 25th Dec 2004 , and cases inconsistent with drowning coding.

3) Doublet cases with non-fatal drowning (included) with later (>30 days) death by cause other than drowning

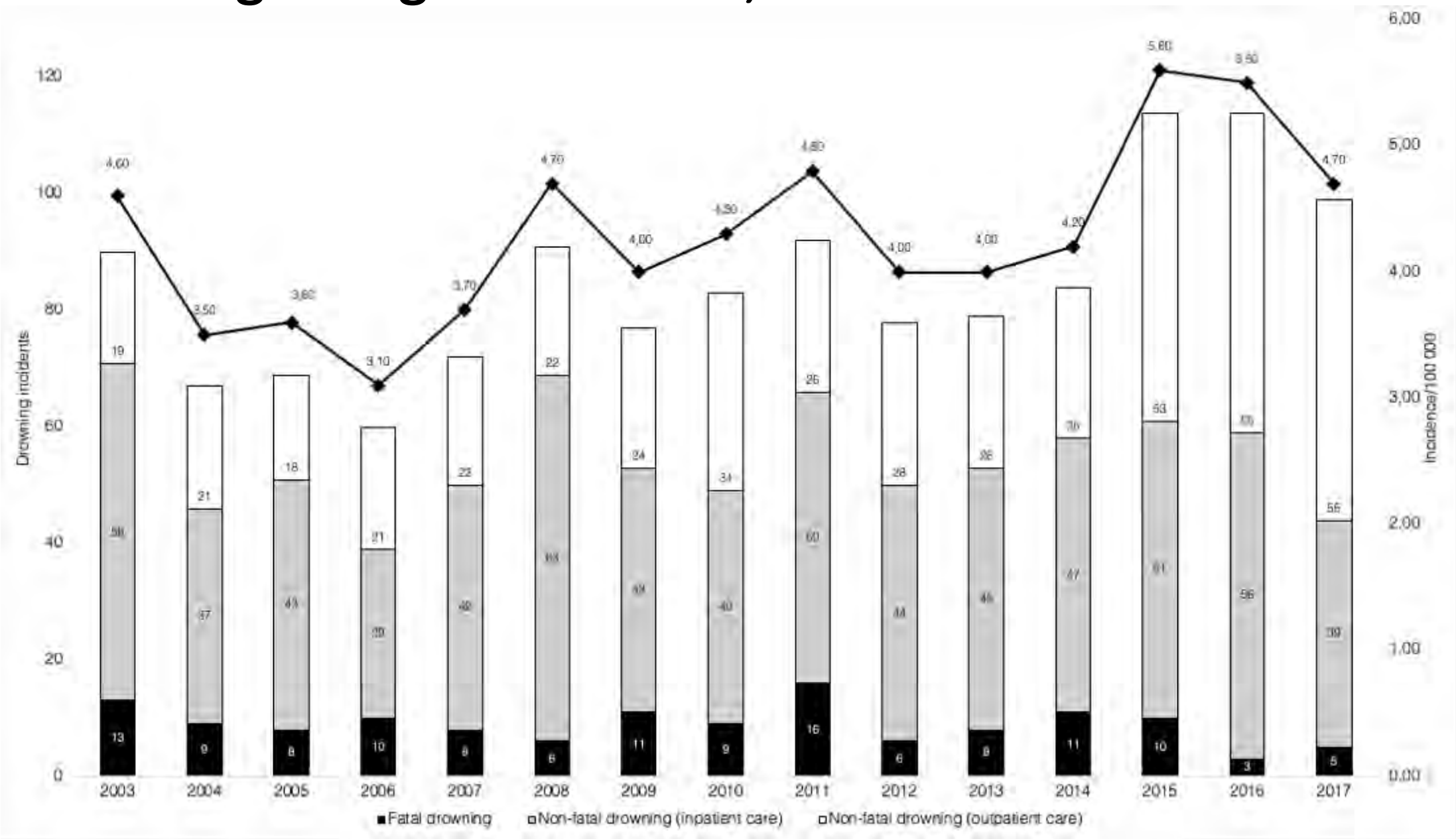
Study population



Drowning in Sweden 2003-2017, all



Drunkning Sverige 2003-2017, Barn 0-17 år



Predictive factors:

- Male
- Children
- +70 years
- Alcohol and drugs
- Decreasing public health

Reasons/ lack of:

- Barriers
- Surveillance
- Swimmingability
- Lifesaving ability
- Illness/ poor health



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Introducing the challenge

Definitions lead the way:

- Drowning definition
- Swimming ability
- Watercompetence
- Selfrescue



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Introducing point of **focus**



Realize the following:

- Definition of drowning claims it is a *process*
- Escalates due to; *attitude, behaviour, judgement*
- Evolve due to and outcome depends on *ability*
- Three outcomes; *survival* drowning is possible.



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Introducing guiding **keywords**



- Promote



- Prevent



- Repair

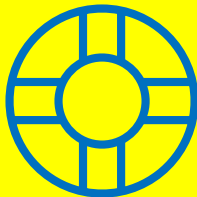


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Introducing **tools** for prevention



- Knowledge



- Equipment



- Company



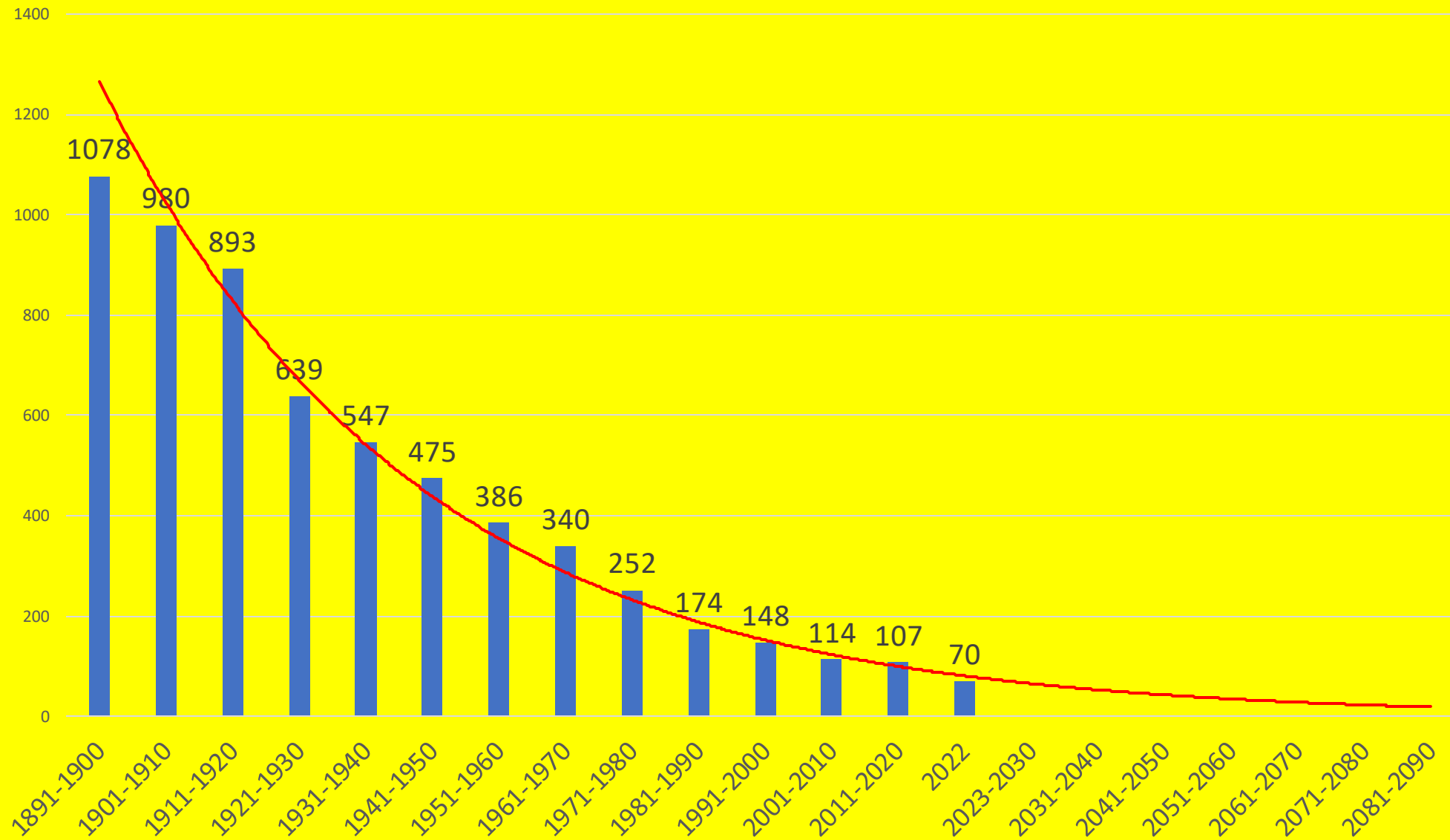
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Introducing the "Triangle of Hope"

Close the gap to prevent drowning!



Zero vision One World Free from Drowning!



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It sees no bounderys,
floods thru all layers of Society,
no one is out of reach.

Occurs when you least expect, slumbering
and strikes with in a second,
turn joy to despair.

Leaves with a whisper,
silently follow the current.
Can turn life to rest,
abandoning the remaining with great loss.

Drowning is a severe and
underestimated public health issue!

Anyone can drown, no one should.



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Q/A



- Mikael Olausson, Water Safety Manager 2017
- Active in, on and near water since 1986
- Professionell since 1995
- Assignment as voluntary with in Swedish Life saving Society since 2005
- Assignment with in the International Life Saving federation of Europe (ILSE) since 2011
- Vice Chair ILSE Rescue Commission 2012-2020
- Member ILSE Drowning Prevention Commission 2020
- Chair of National Ice Safety Council since 2017
- Co-writer *"Incidence and characteristics of drowning in Sweden during a 15-year period"*, publ. 2021
- ILSE representant "Comité Européen de Normalisation" (CEN)



Prevention is the key, lets go green!

KEDJAN SOM RÄDDAR LIV VID DRUNKNING



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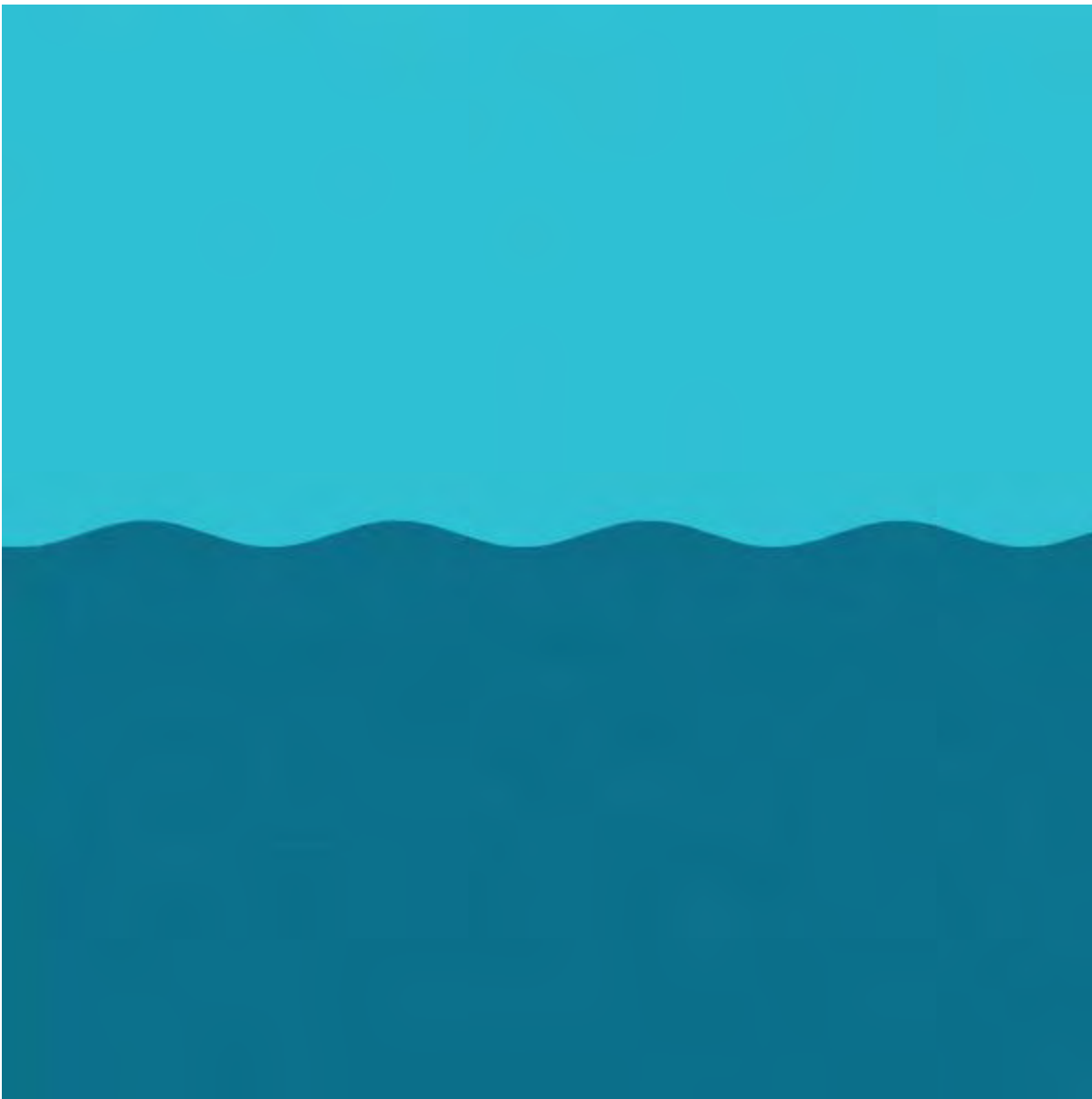


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**World Health
Organization**



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<https://www.who.int/campaigns/world-drowning-prevention-day/2021#>



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