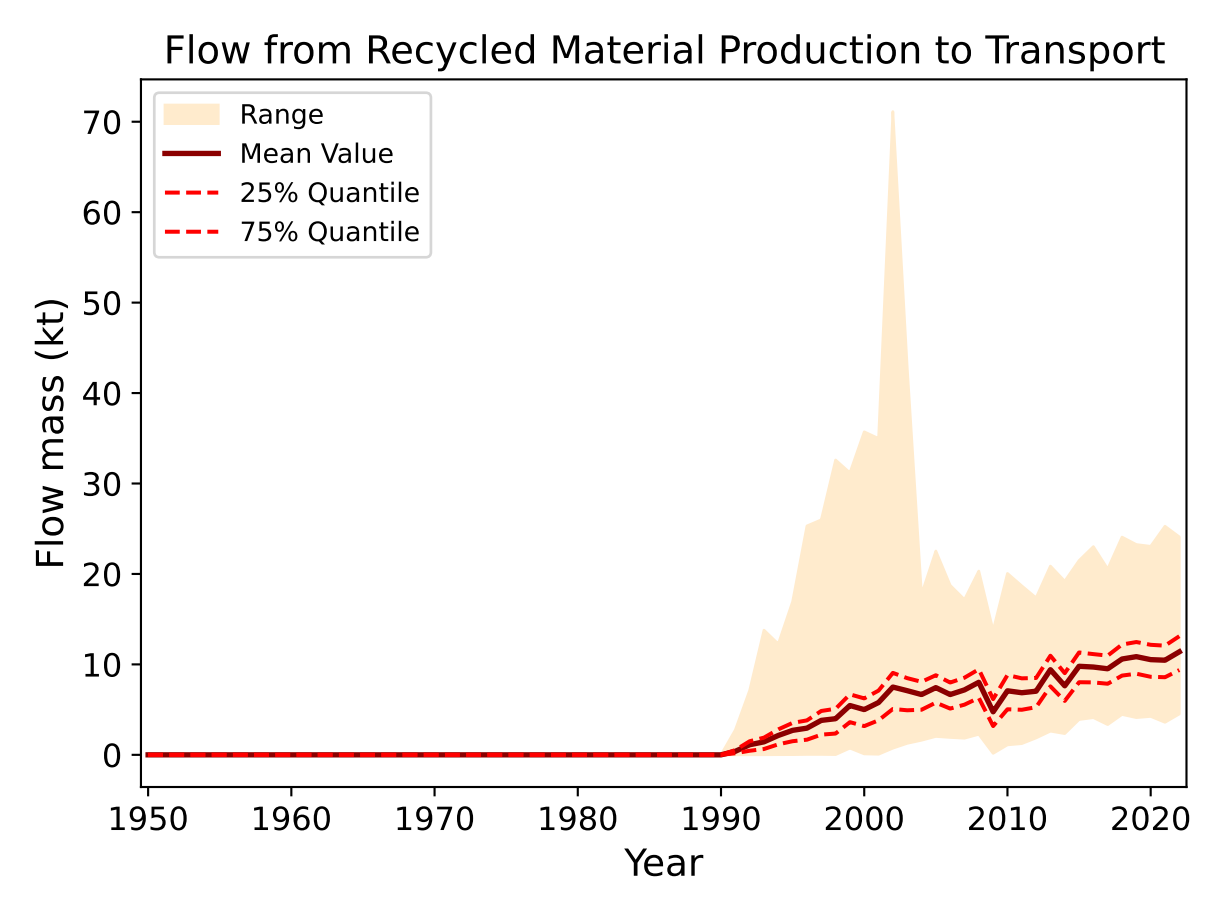
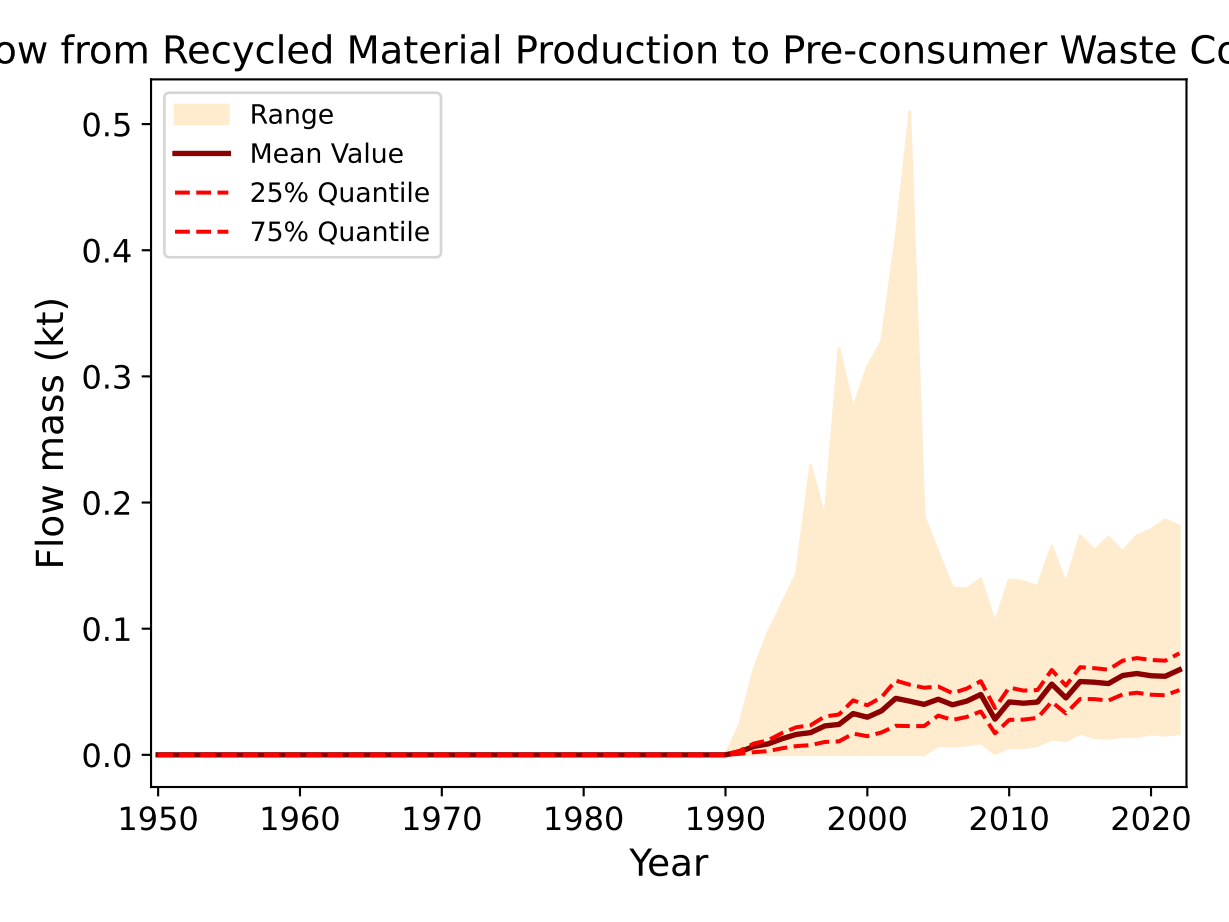
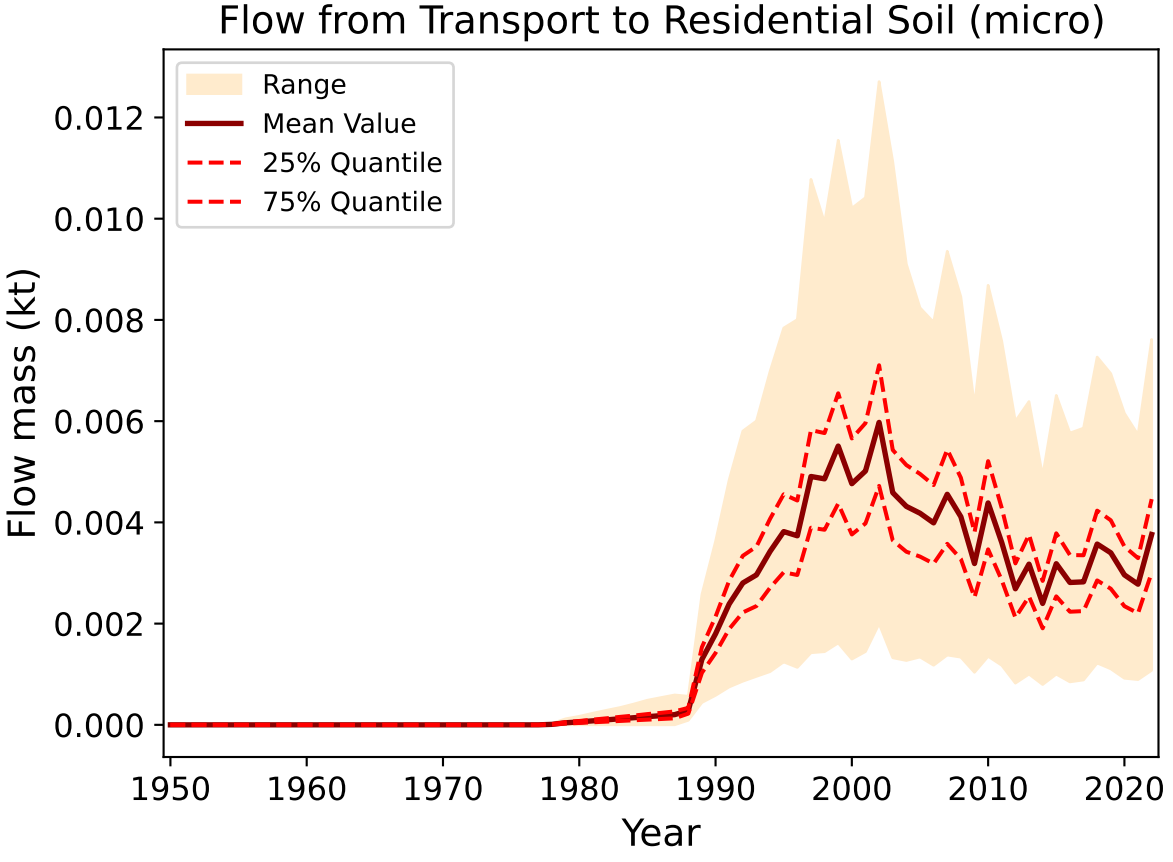
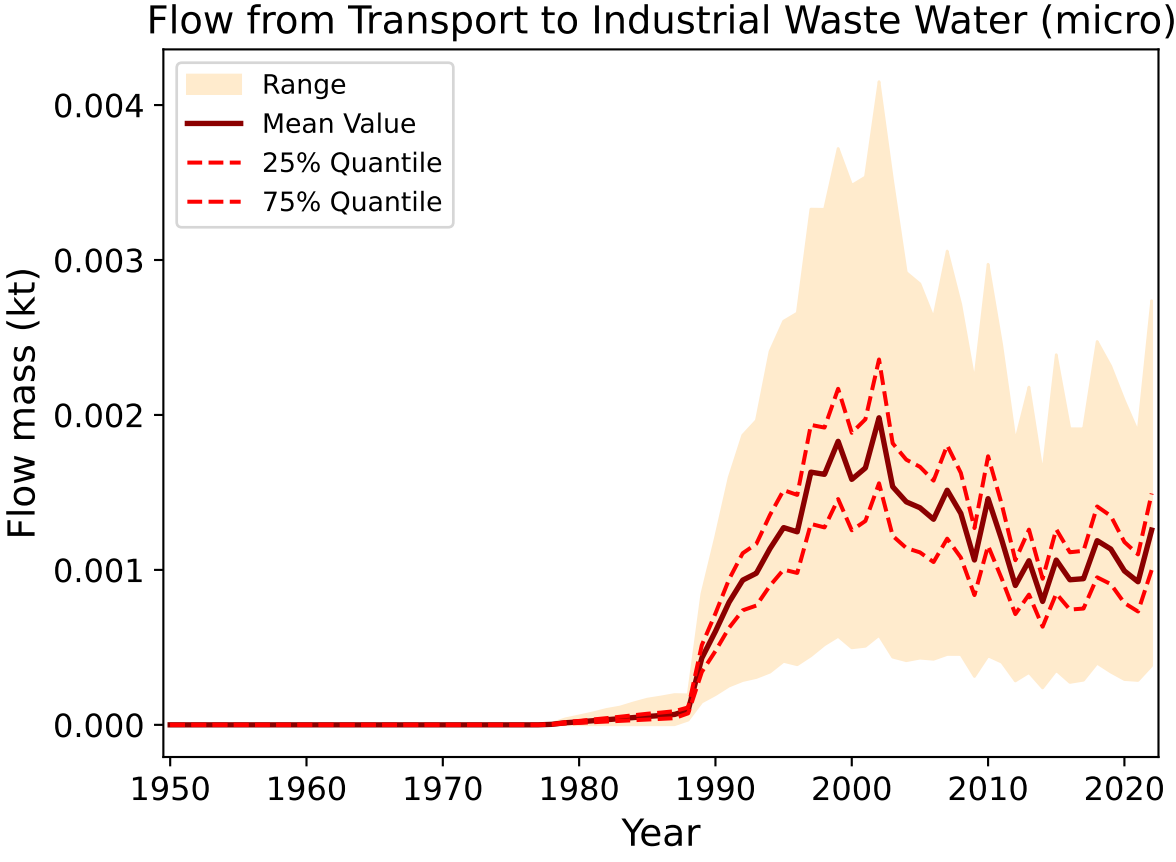
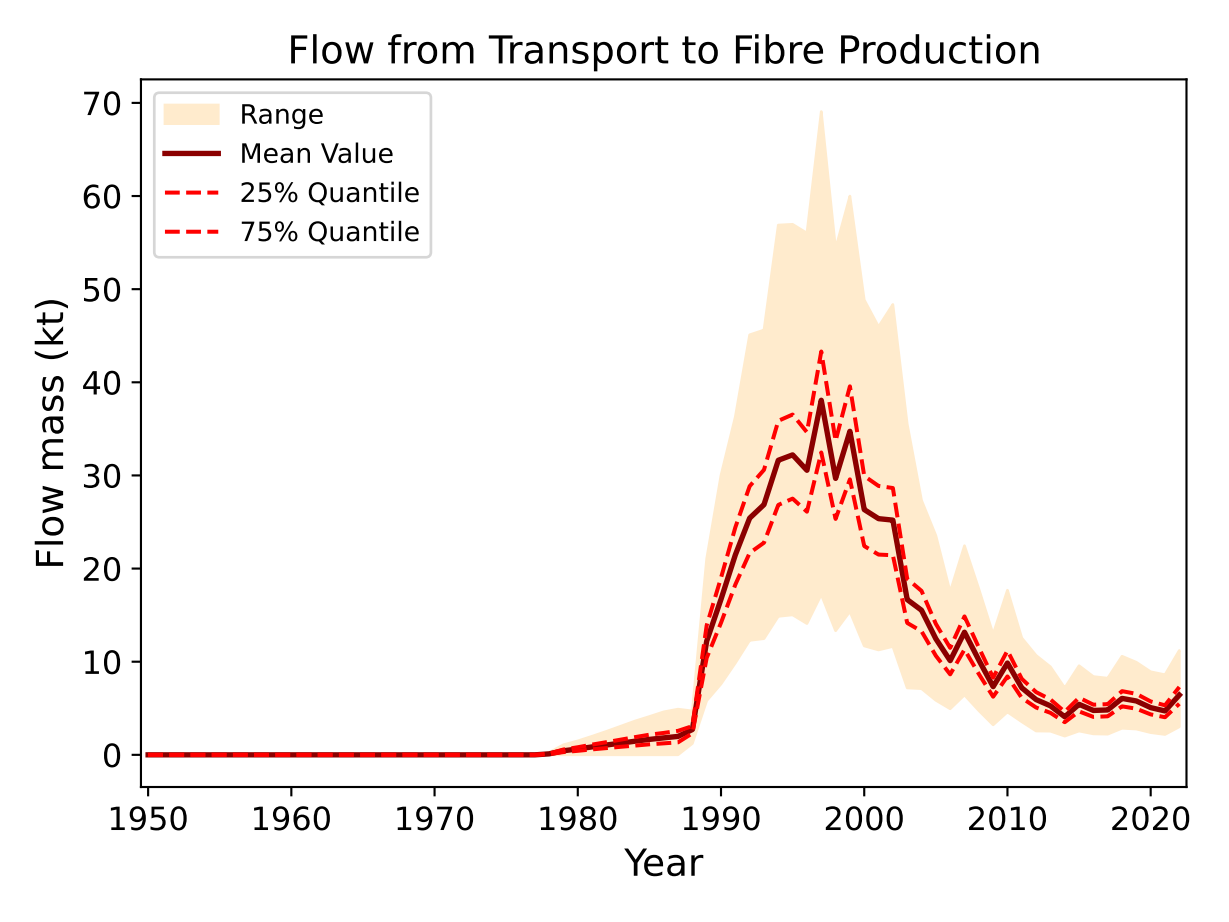
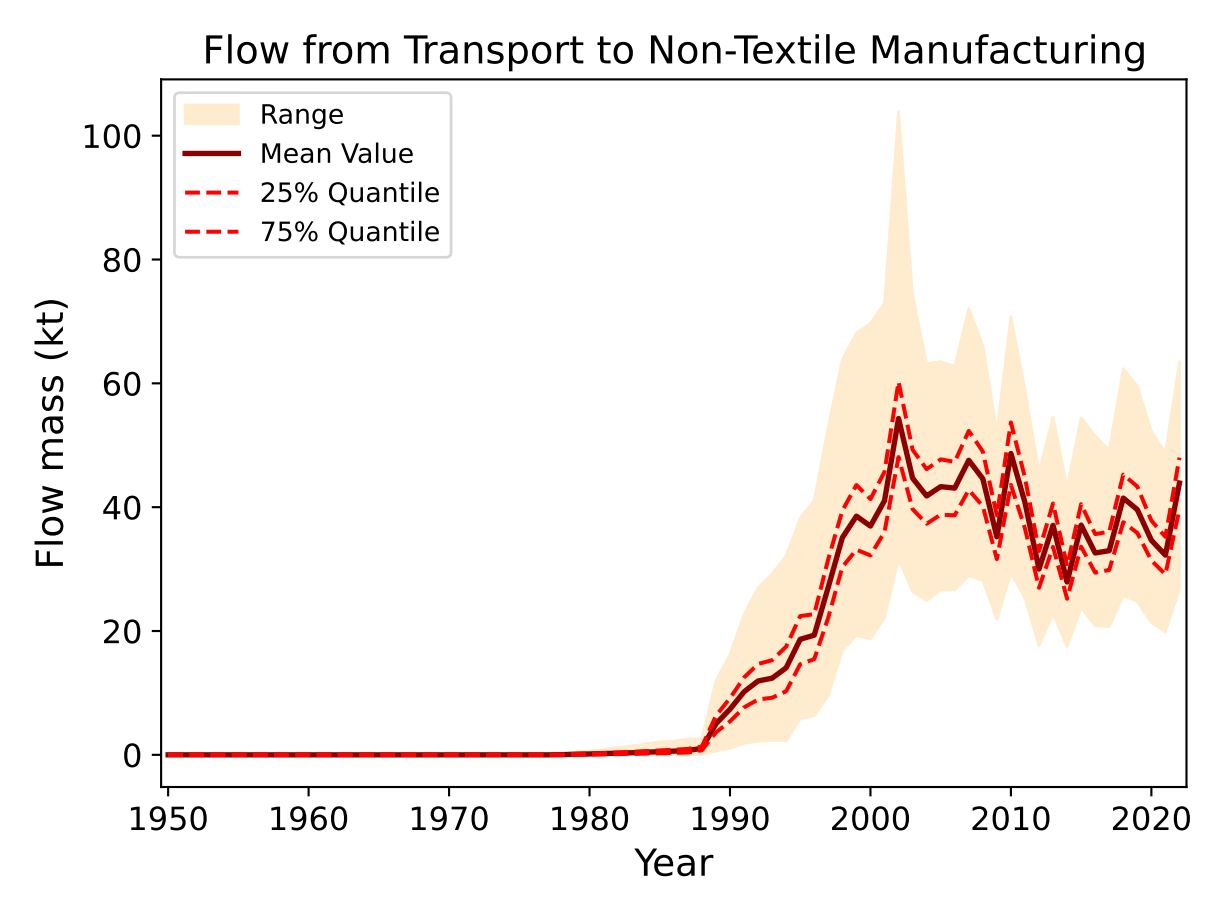

Flow from Recycled Material Production to Transport
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
10
20
30
40
50
60
70
1950
1960
1970
1980
1990
2000
2010
2020
Year

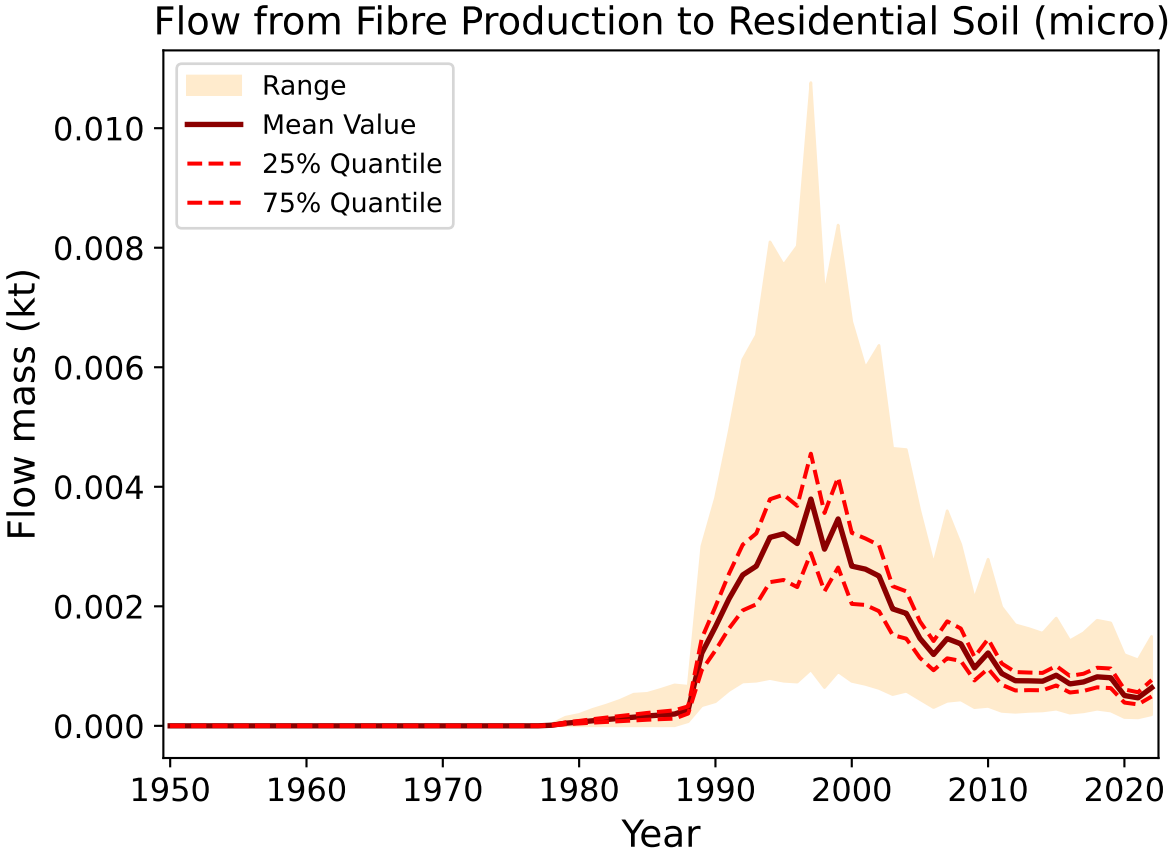

ow from Recycled Material Production to Pre-consumer Waste Co
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0
0.1
0.2
0.3
0.4
0.5
1950
1960
1970
1980
1990
2000
2010
2020
Year

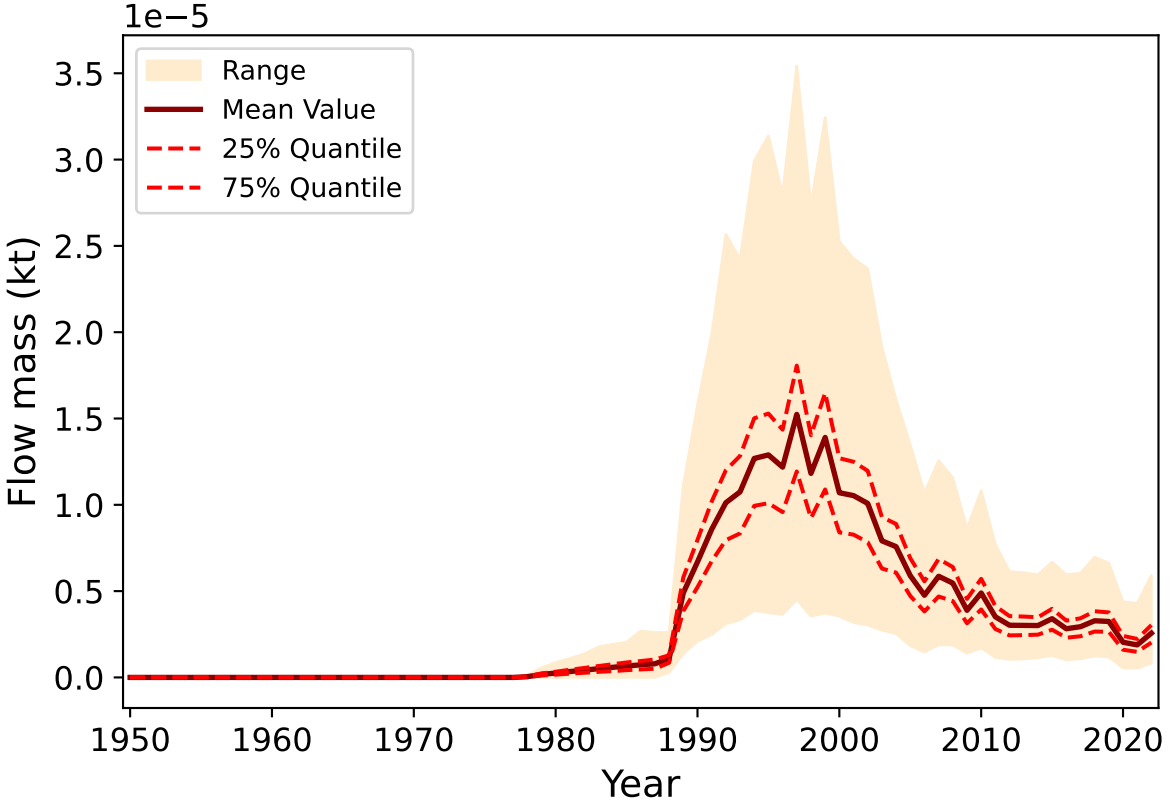

Flow from Transport to Residential Soil (micro)
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.012
0.010
0.008
0.006
0.004
0.002
0.000
1950
1960
1970
1980
1990
2000
2010
2020
Year

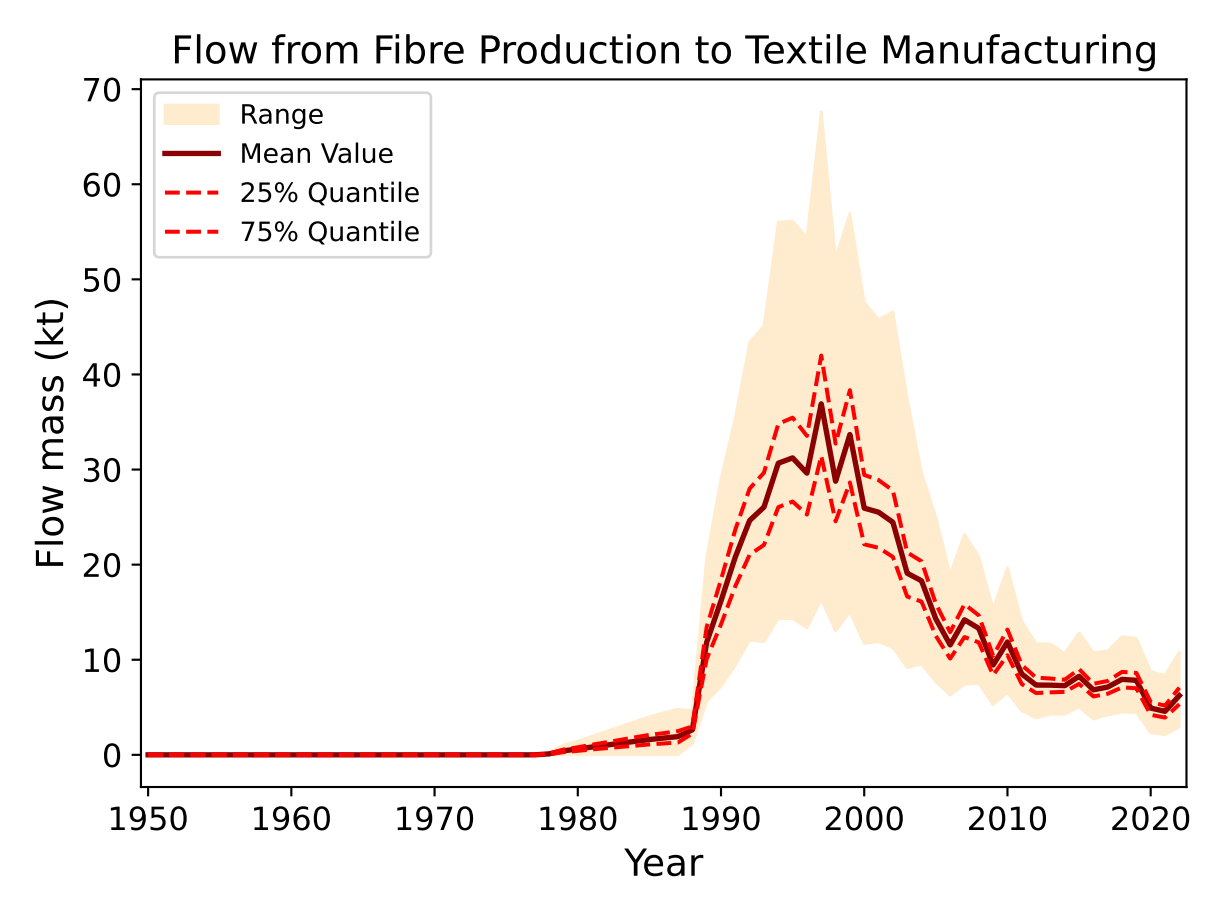

Flow from Transport to Industrial Waste Water (micro)
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.004
0.003
0.002
0.001
0.000
1950
1960
1970
1980
1990
2000
2010
2020
Year

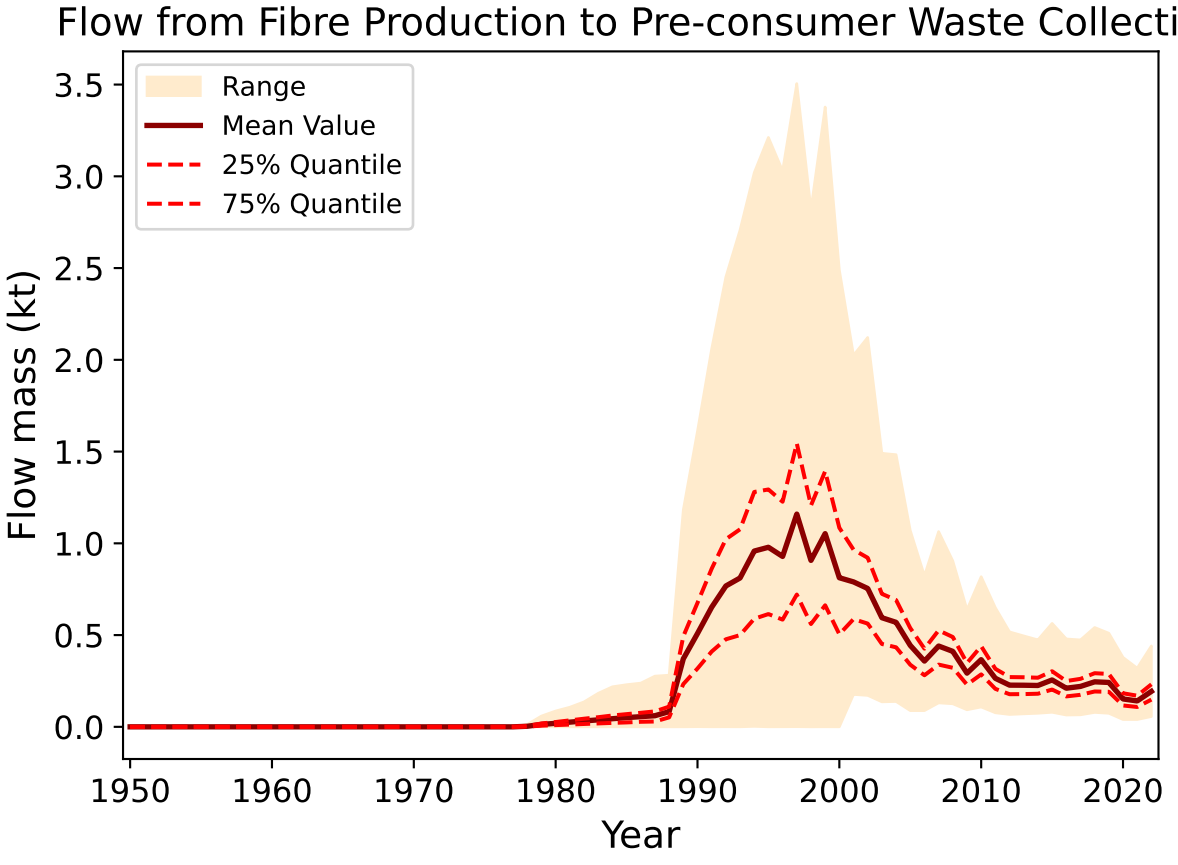

Flow from Transport to Fibre Production
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
10
20
30
40
50
60
70
1950
1960
1970
1980
1990
2000
2010
2020
Year

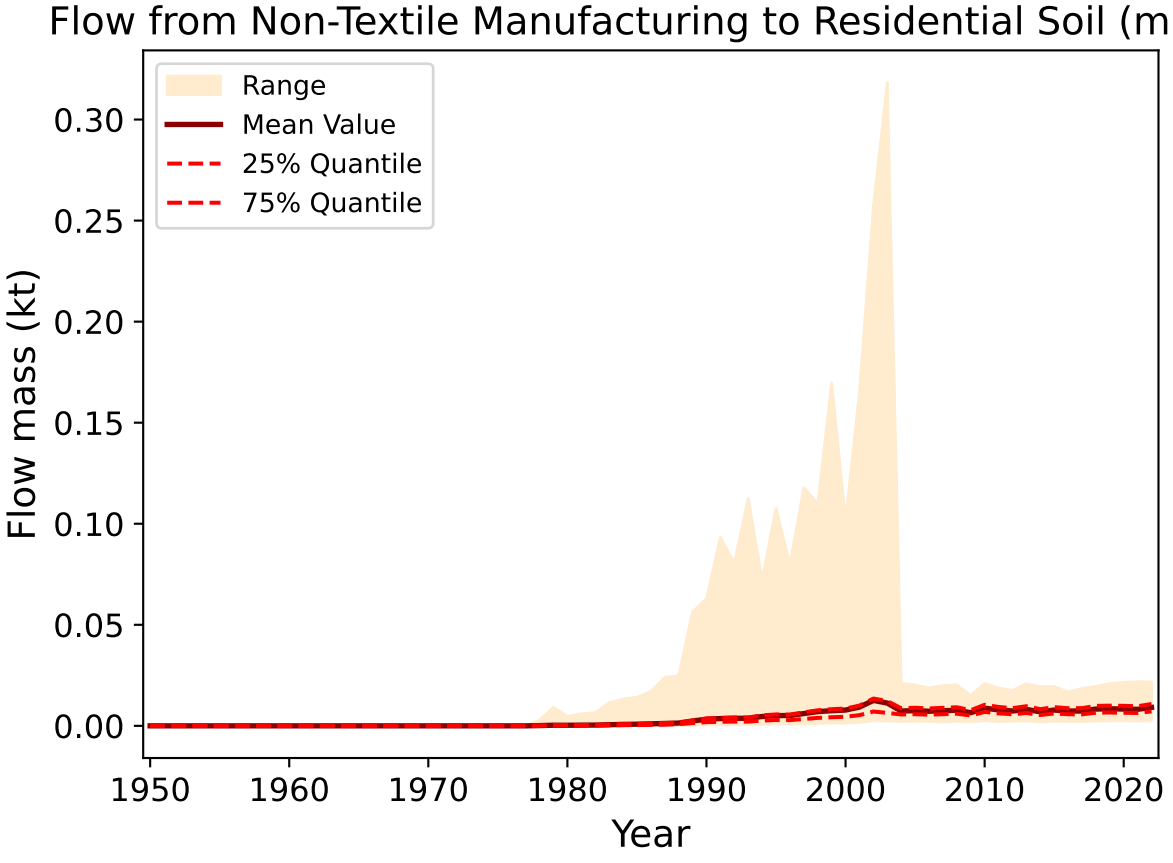

Flow from Transport to Non-Textile Manufacturing
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
20
40
60
80
100
1950
1960
1970
1980
1990
2000
2010
2020
Year

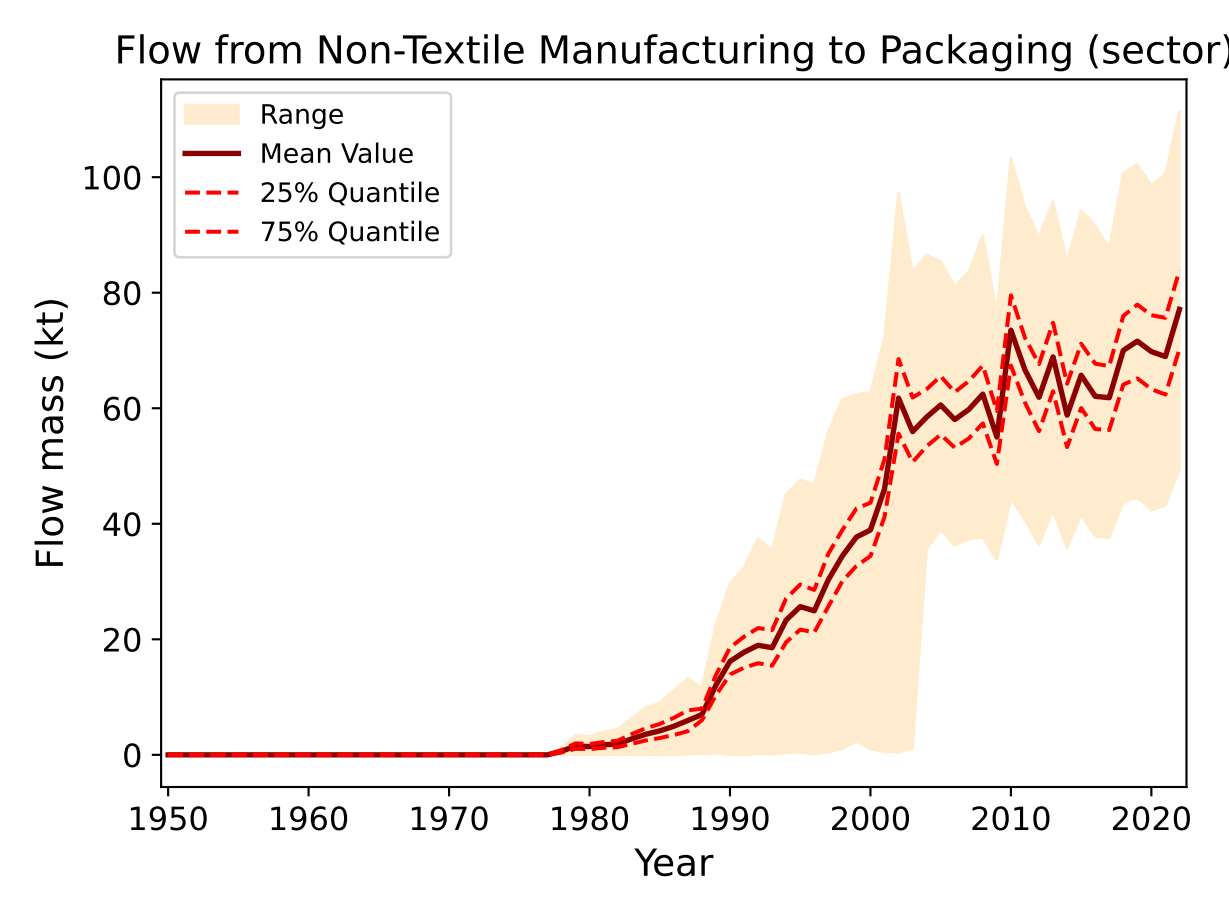

Flow from Fibre Production to Residential Soil (micro)
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.010
0.008
0.006
0.004
0.002
0.000
1950
1960
1970
1980
1990
2000
2010
2020
Year

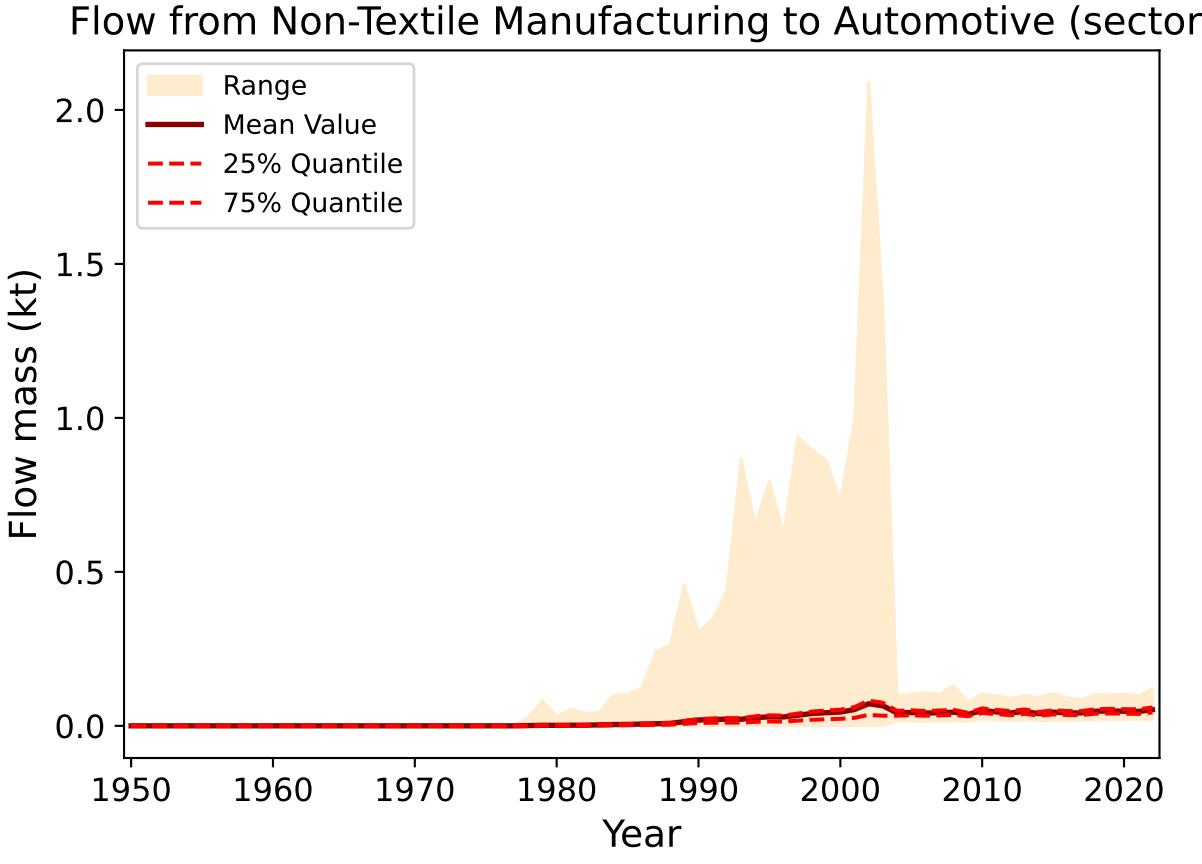

Flow from Fibre Production to Waste Water (micro)
1e−5
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
1950
1960
1970
1980
1990
2000
2010
2020
Year

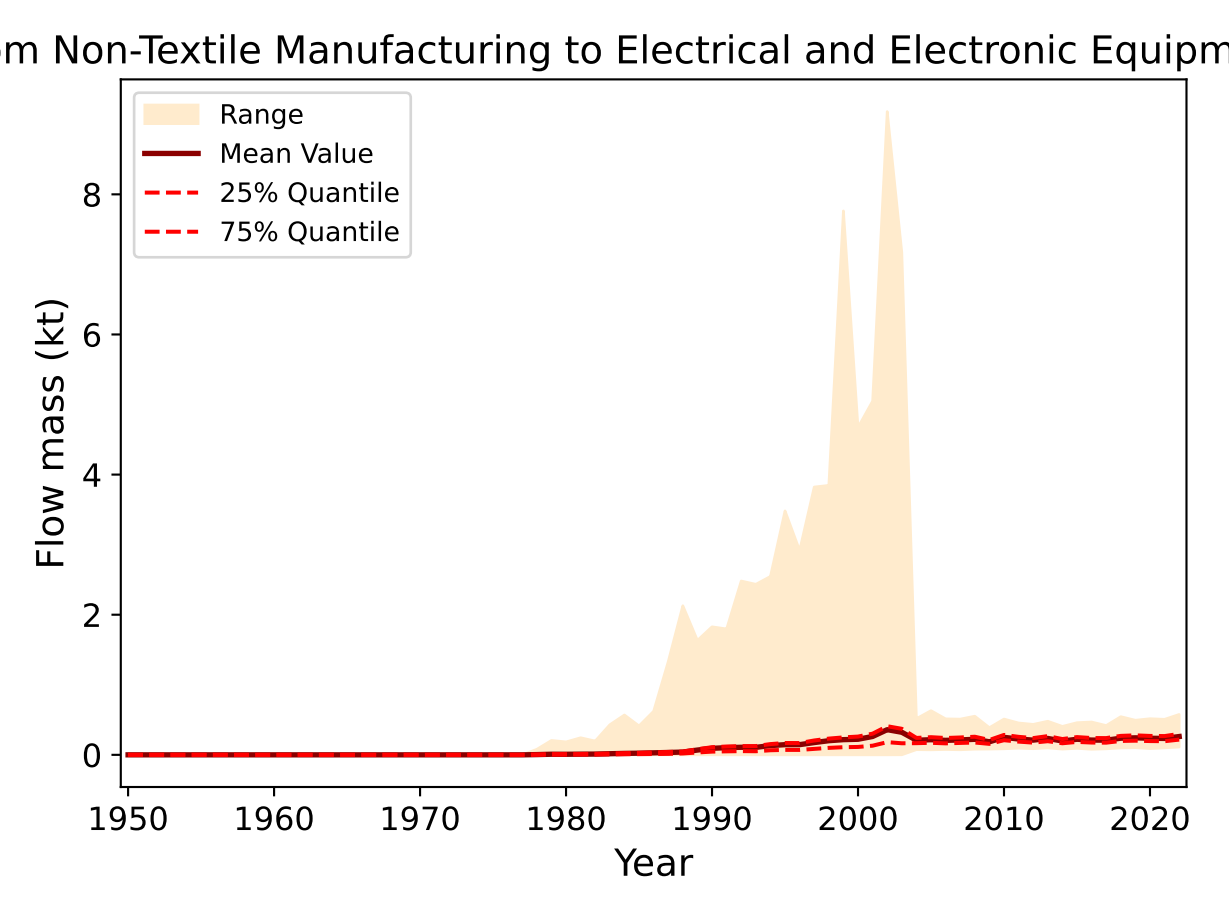

Flow from Fibre Production to Textile Manufacturing
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
Year
0
10
20
30
40
50
60
70
1950
1960
1970
1980
1990
2000
2010
2020

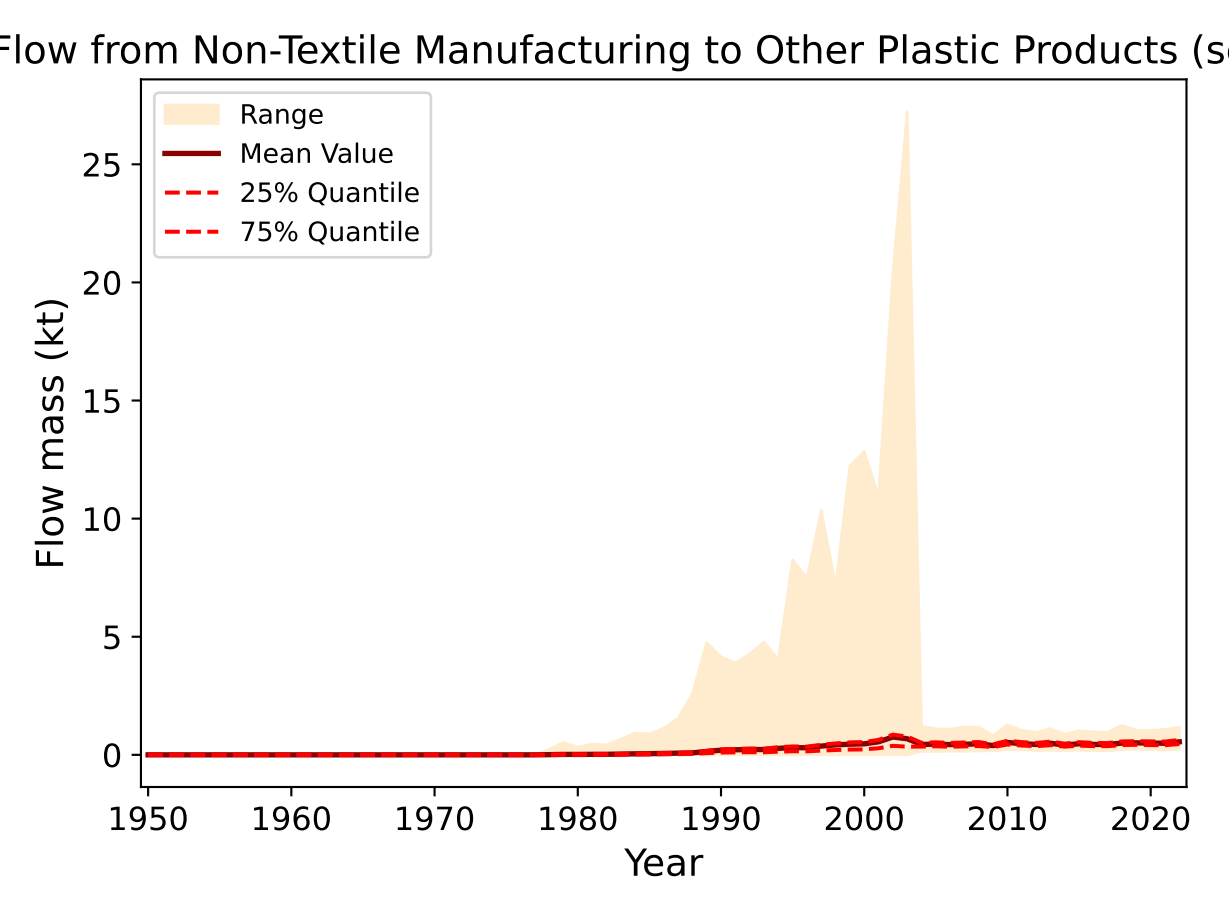

Flow from Fibre Production to Pre-consumer Waste Collectio
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
1950
1960
1970
1980
1990
2000
2010
2020
Year

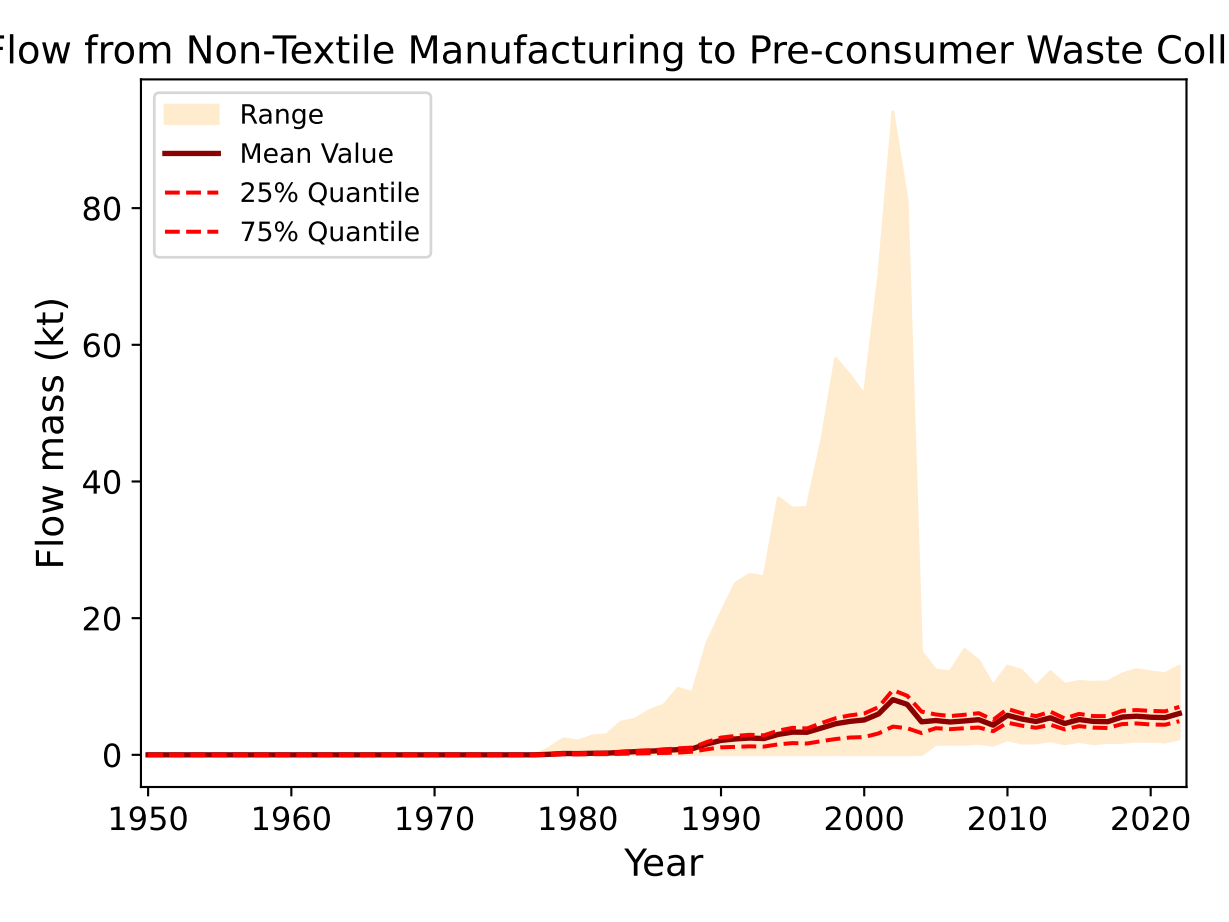

Flow from Non-Textile Manufacturing to Residential Soil (mic
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.30
0.25
0.20
0.15
0.10
0.05
0.00
1950
1960
1970
1980
1990
2000
2010
2020
Year


Flow from Non-Textile Manufacturing to Packaging (sector)
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
20
40
60
80
100
1950
1960
1970
1980
1990
2000
2010
2020
Year

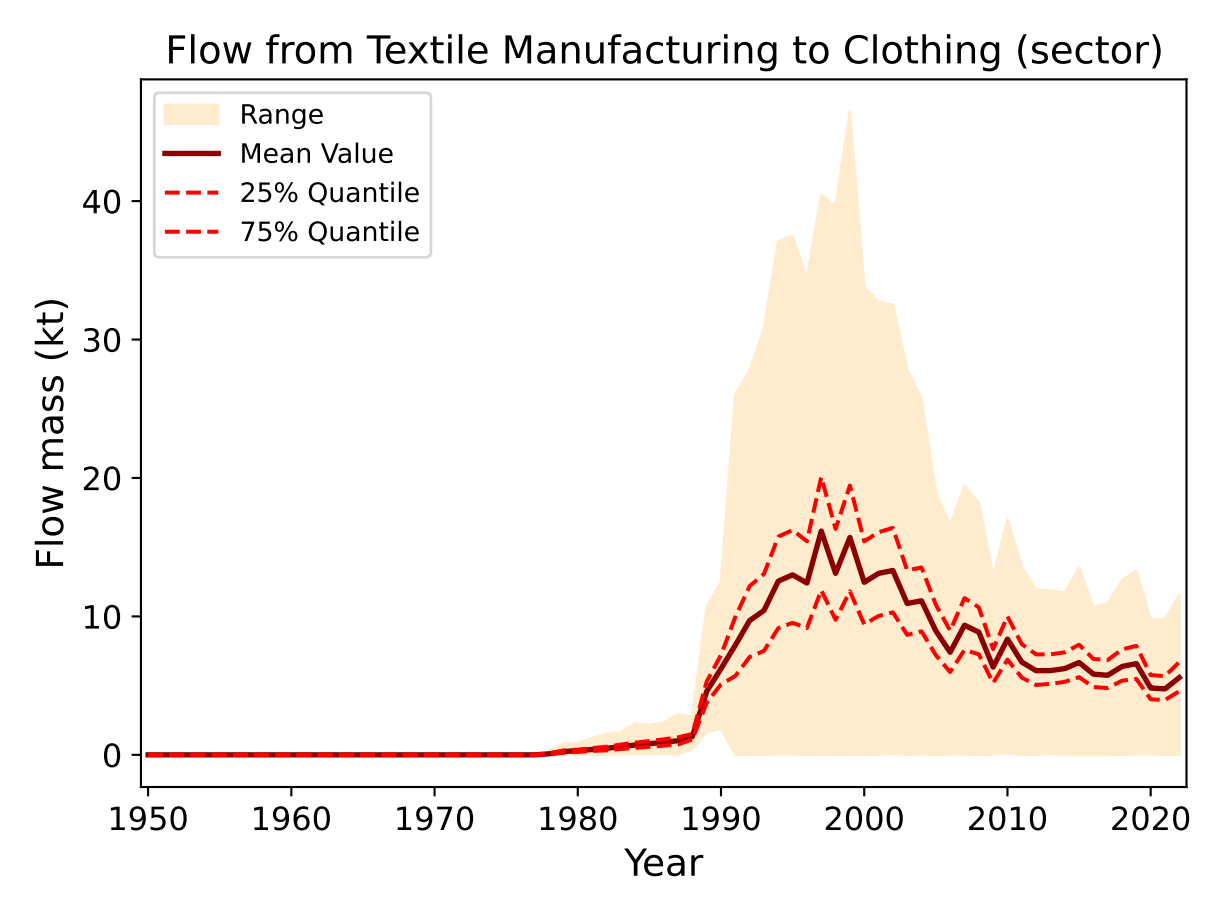

Flow from Non-Textile Manufacturing to Automotive (sector
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
2.0
1.5
1.0
0.5
0.0
1950
1960
1970
1980
1990
2000
2010
2020
Year

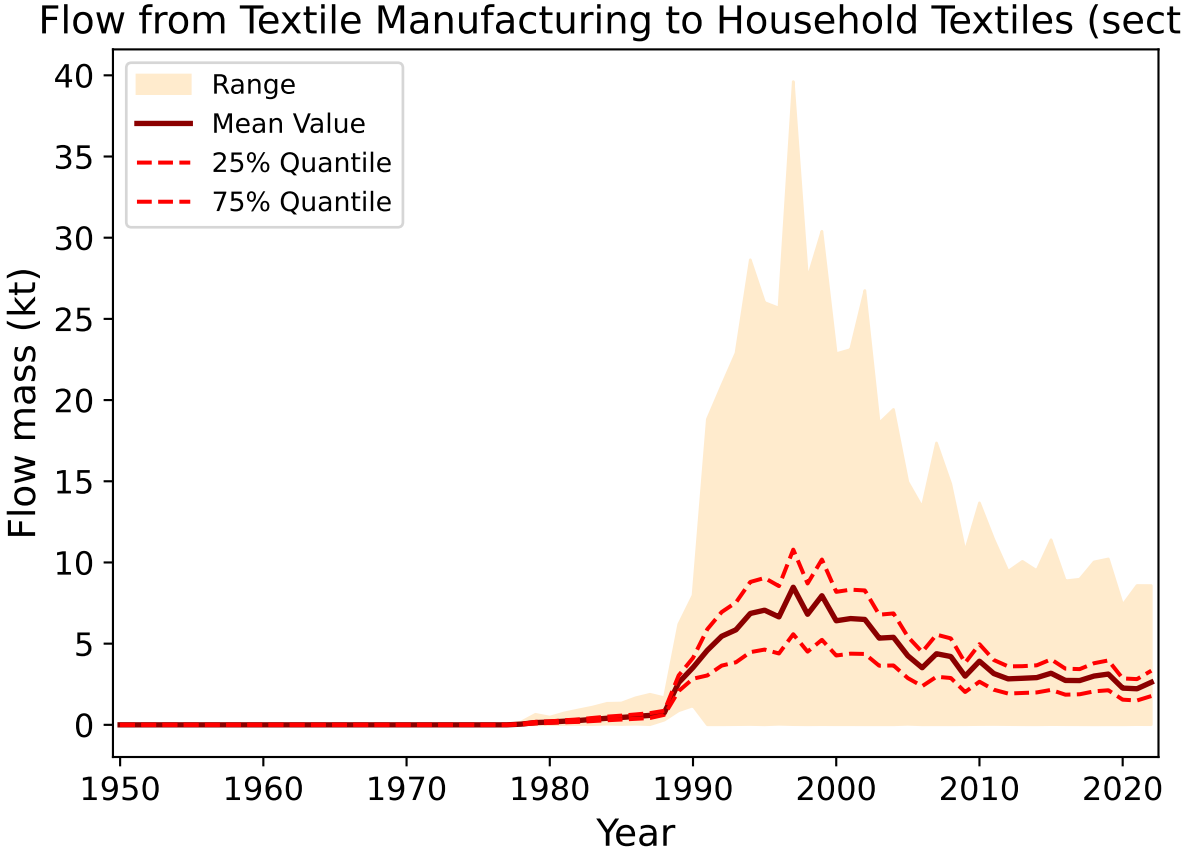

m Non-Textile Manufacturing to Electrical and Electronic Equipm
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
2
4
6
8
1950
1960
1970
1980
1990
2000
2010
2020
Year

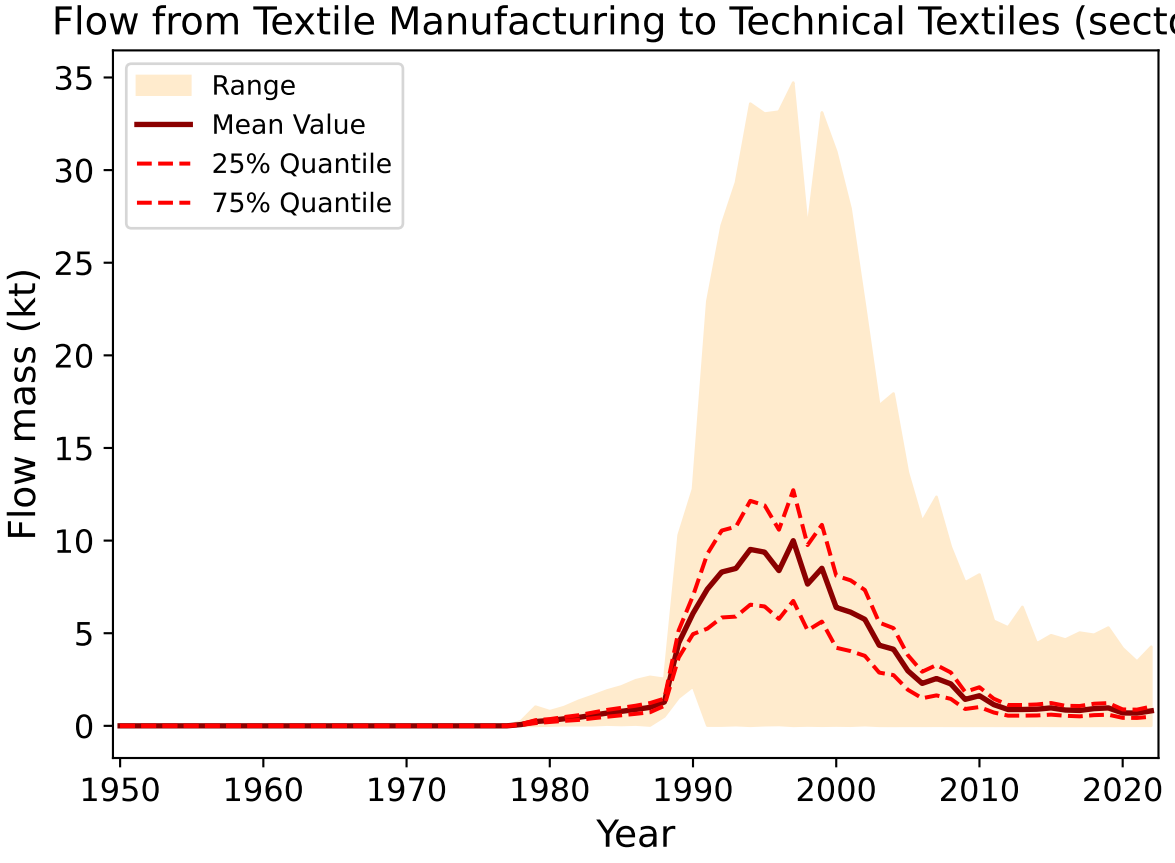

Flow from Non-Textile Manufacturing to Other Plastic Products (s
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
5
10
15
20
25
1950
1960
1970
1980
1990
2000
2010
2020
Year

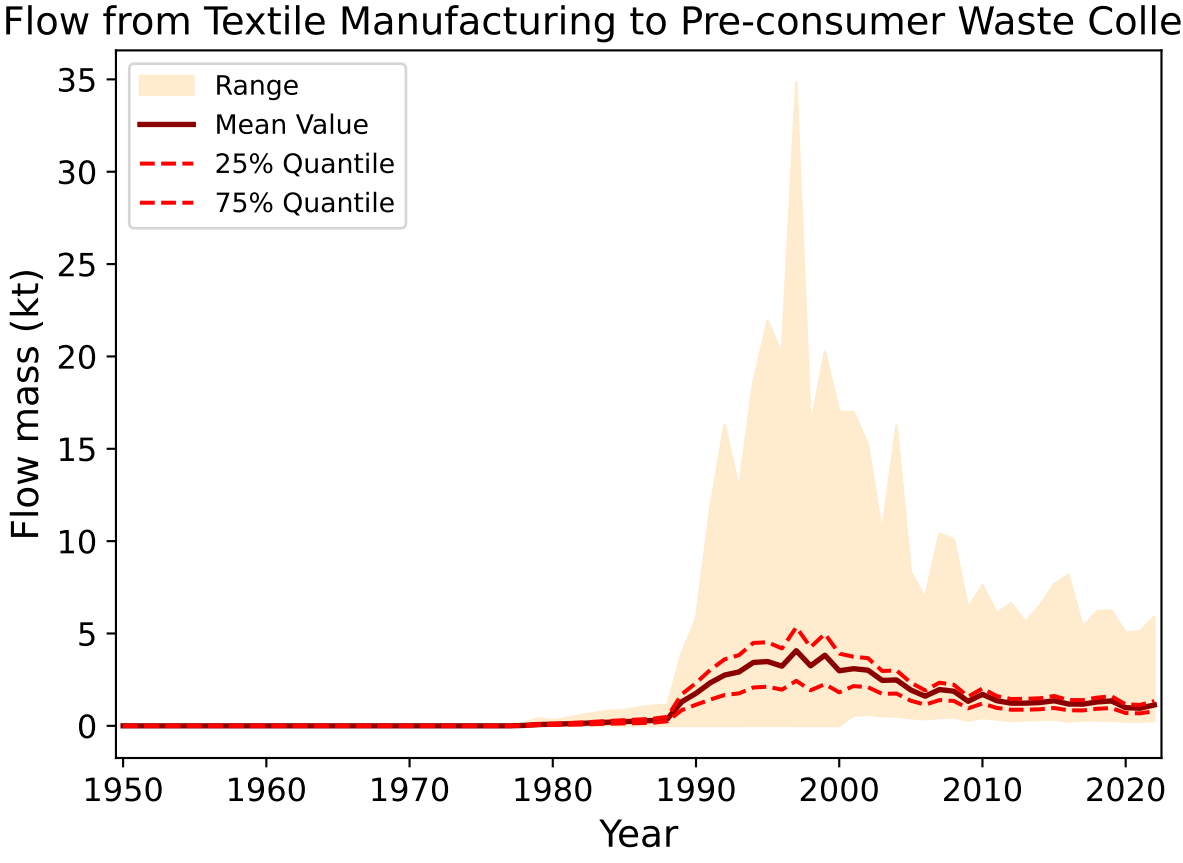

Flow from Non-Textile Manufacturing to Pre-consumer Waste Coll
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
20
40
60
80
1950
1960
1970
1980
1990
2000
2010
2020
Year

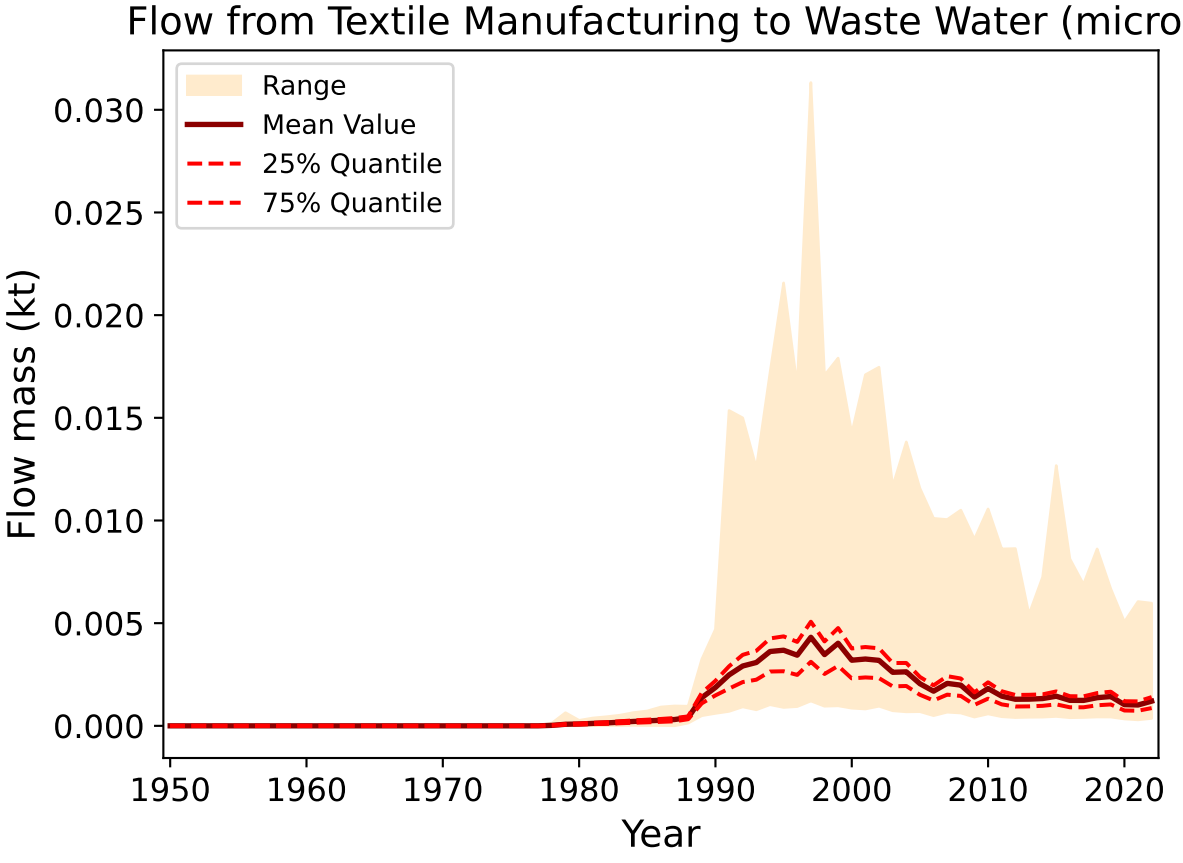
Flow from Non-Textile Manufacturing to Industrial Waste Water
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
1950
1960
1970
1980
1990
2000
2010
2020
Year

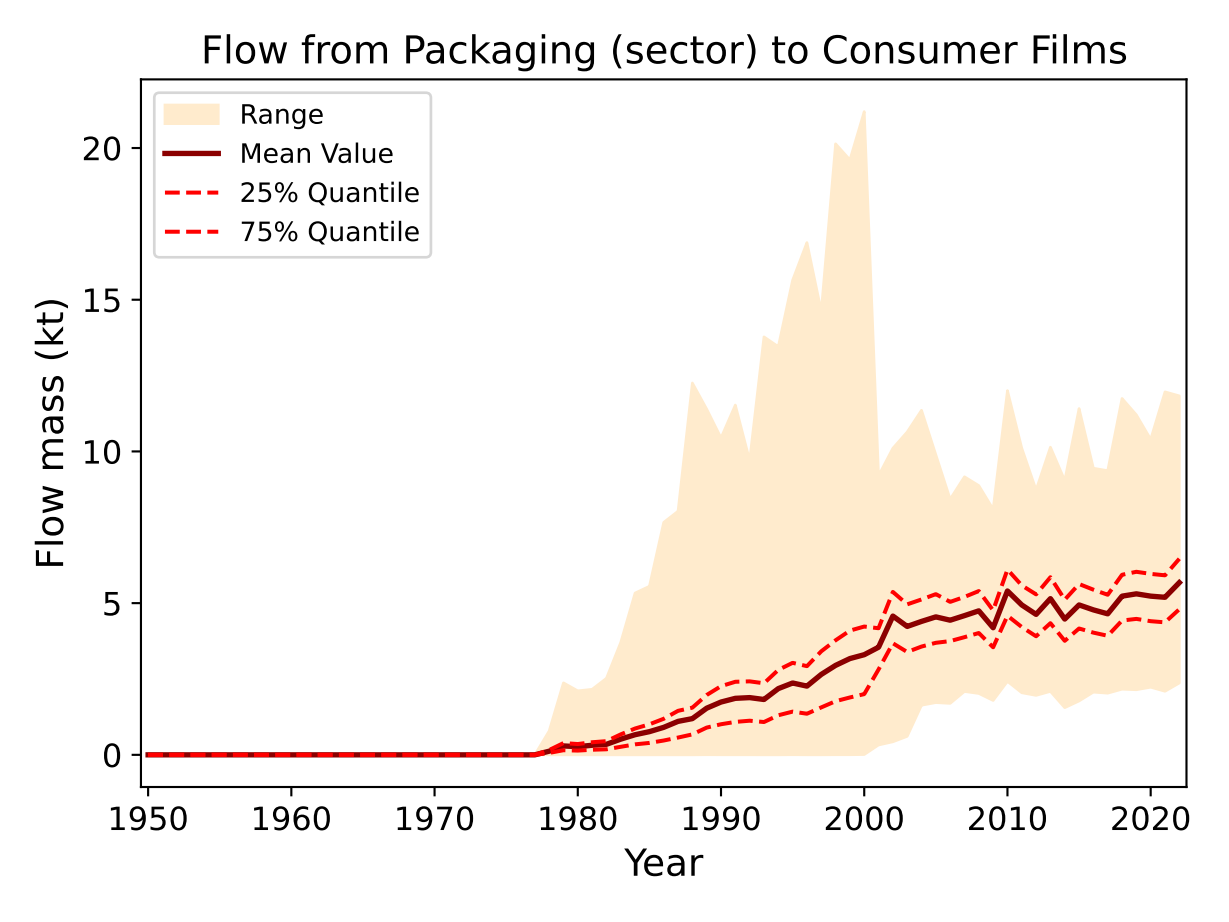

Flow from Textile Manufacturing to Clothing (sector)
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
10
20
30
40
1950
1960
1970
1980
1990
2000
2010
2020
Year

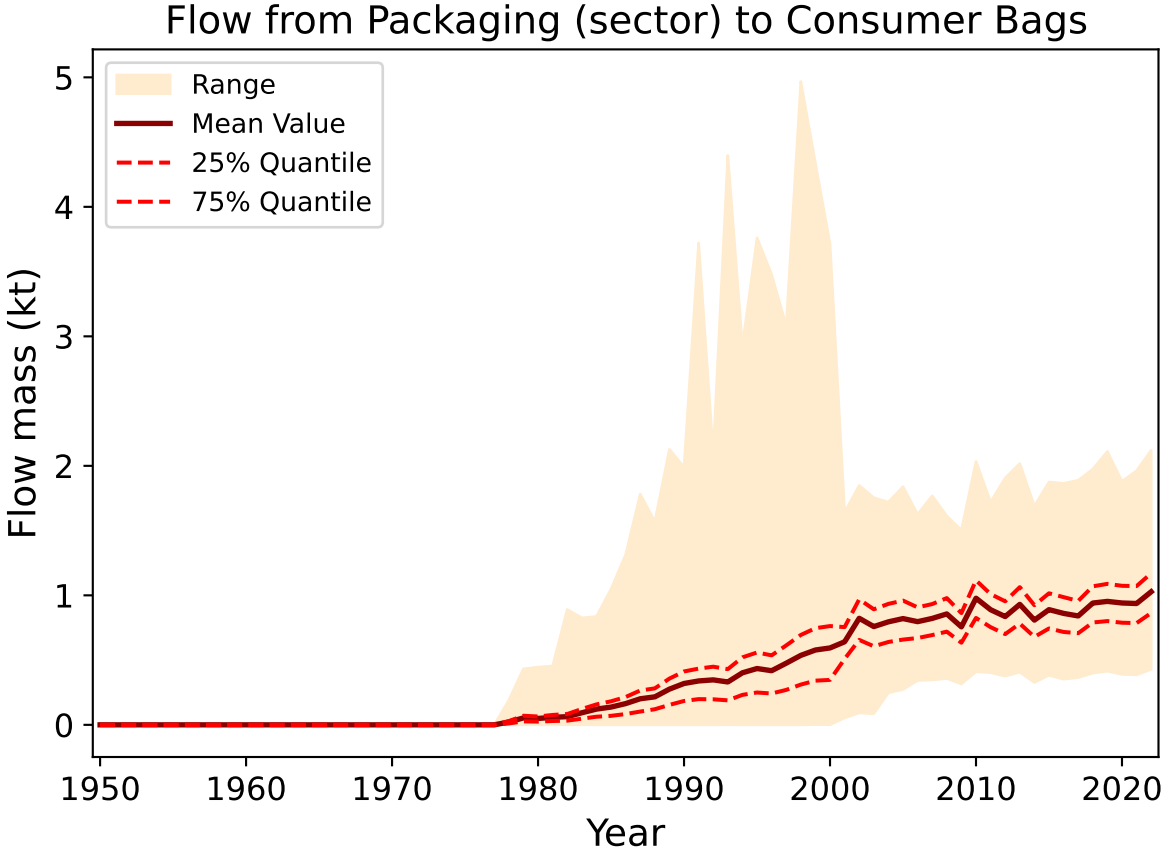

Flow from Textile Manufacturing to Household Textiles (secto
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
5
10
15
20
25
30
35
40
1950
1960
1970
1980
1990
2000
2010
2020
Year

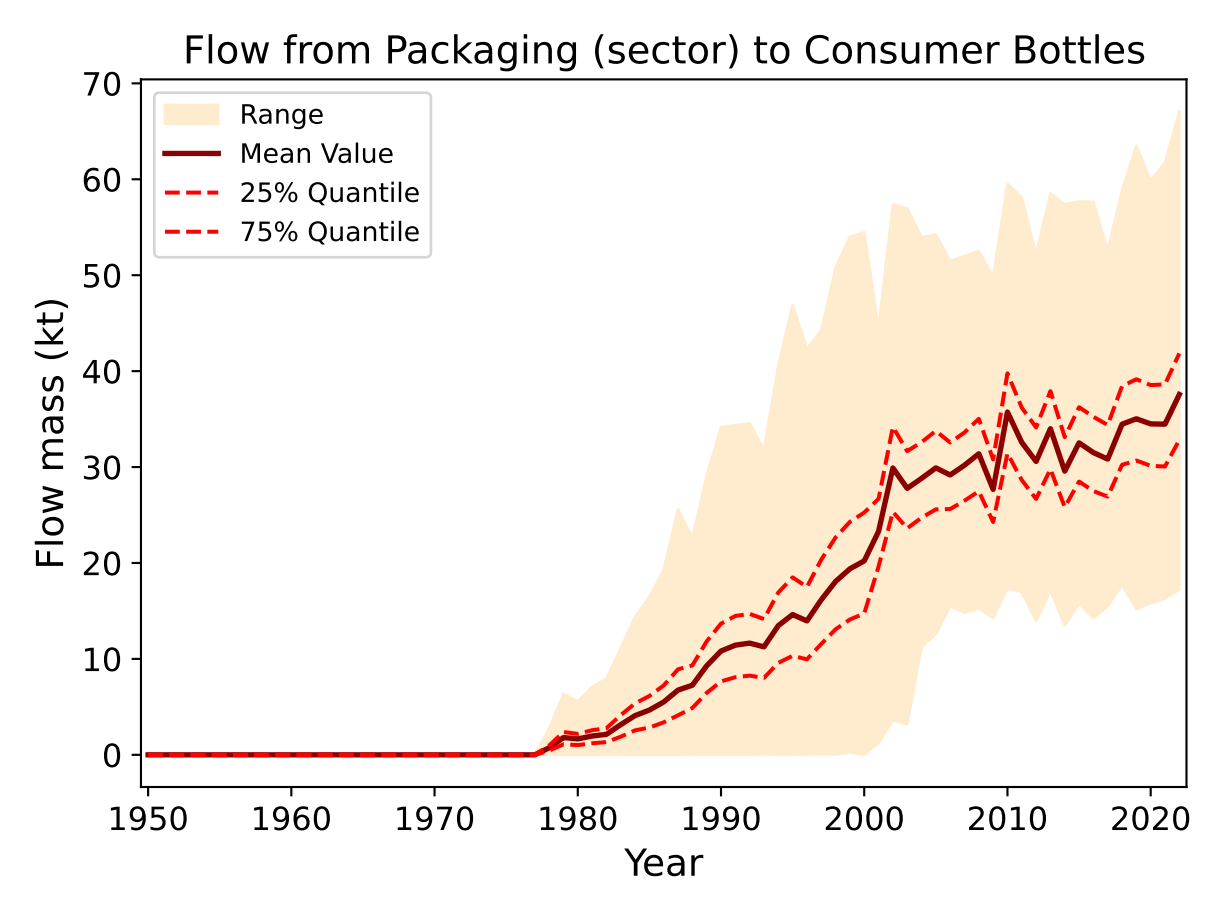

Flow from Textile Manufacturing to Technical Textiles (sector
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
5
10
15
20
25
30
35
1950
1960
1970
1980
1990
2000
2010
2020
Year

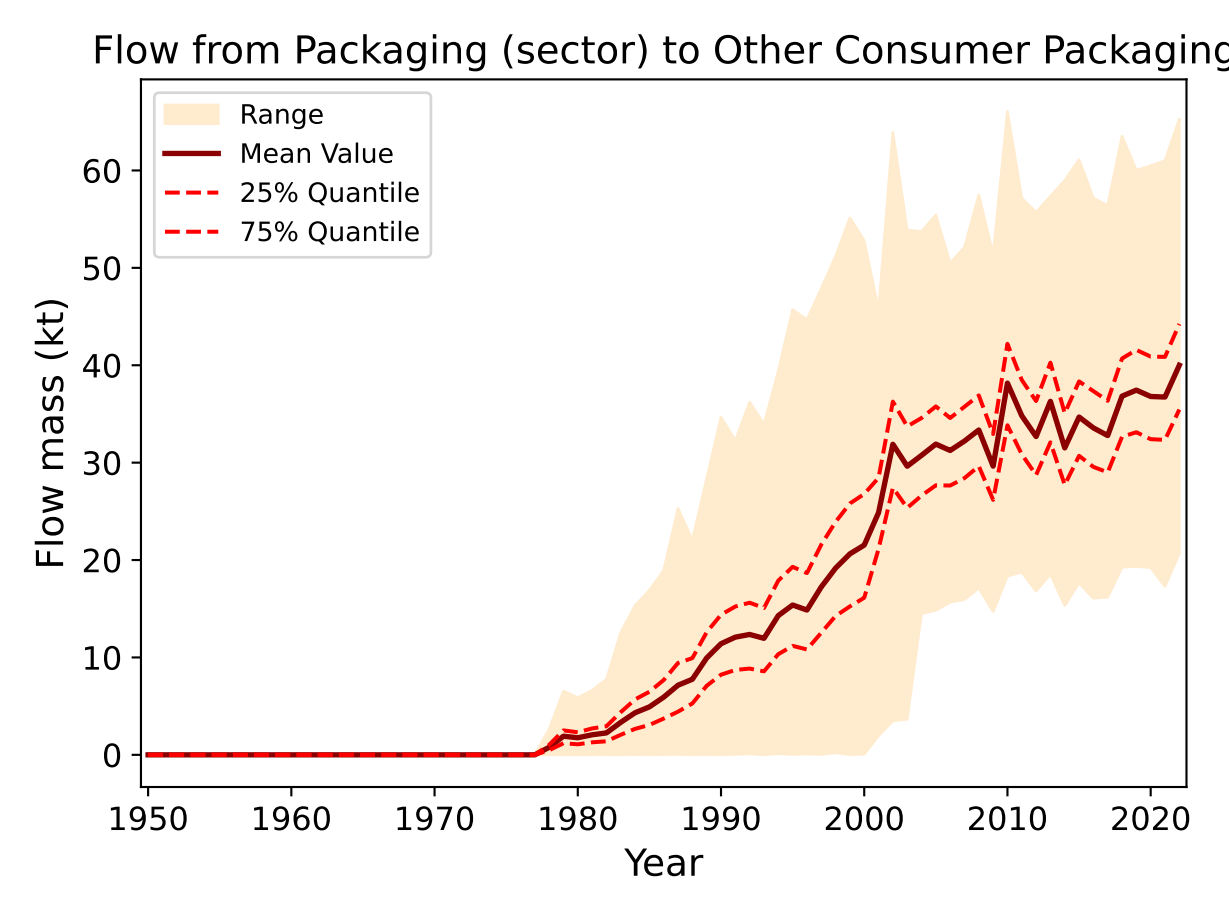

Flow from Textile Manufacturing to Pre-consumer Waste Collec
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
5
10
15
20
25
30
35
1950
1960
1970
1980
1990
2000
2010
2020
Year

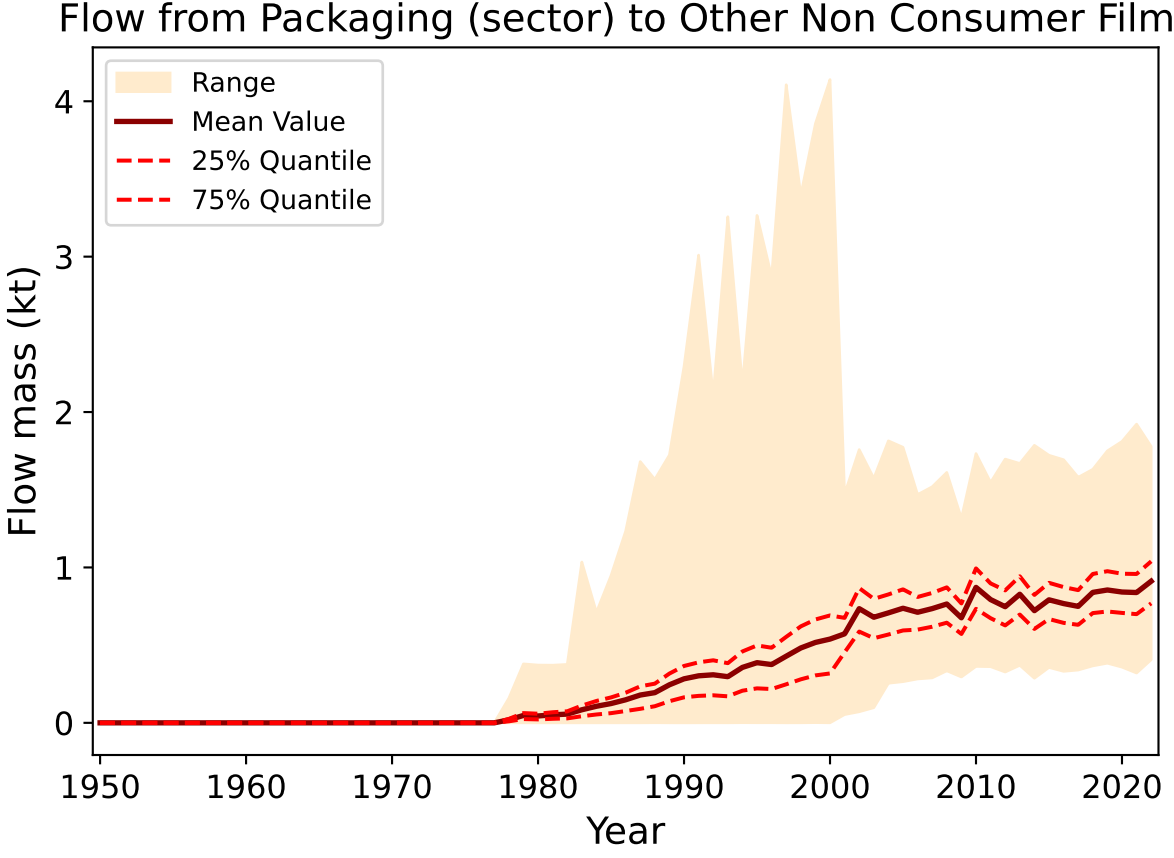

Flow from Textile Manufacturing to Waste Water (micro)
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.030
0.025
0.020
0.015
0.010
0.005
0.000
1950
1960
1970
1980
1990
2000
2010
2020
Year

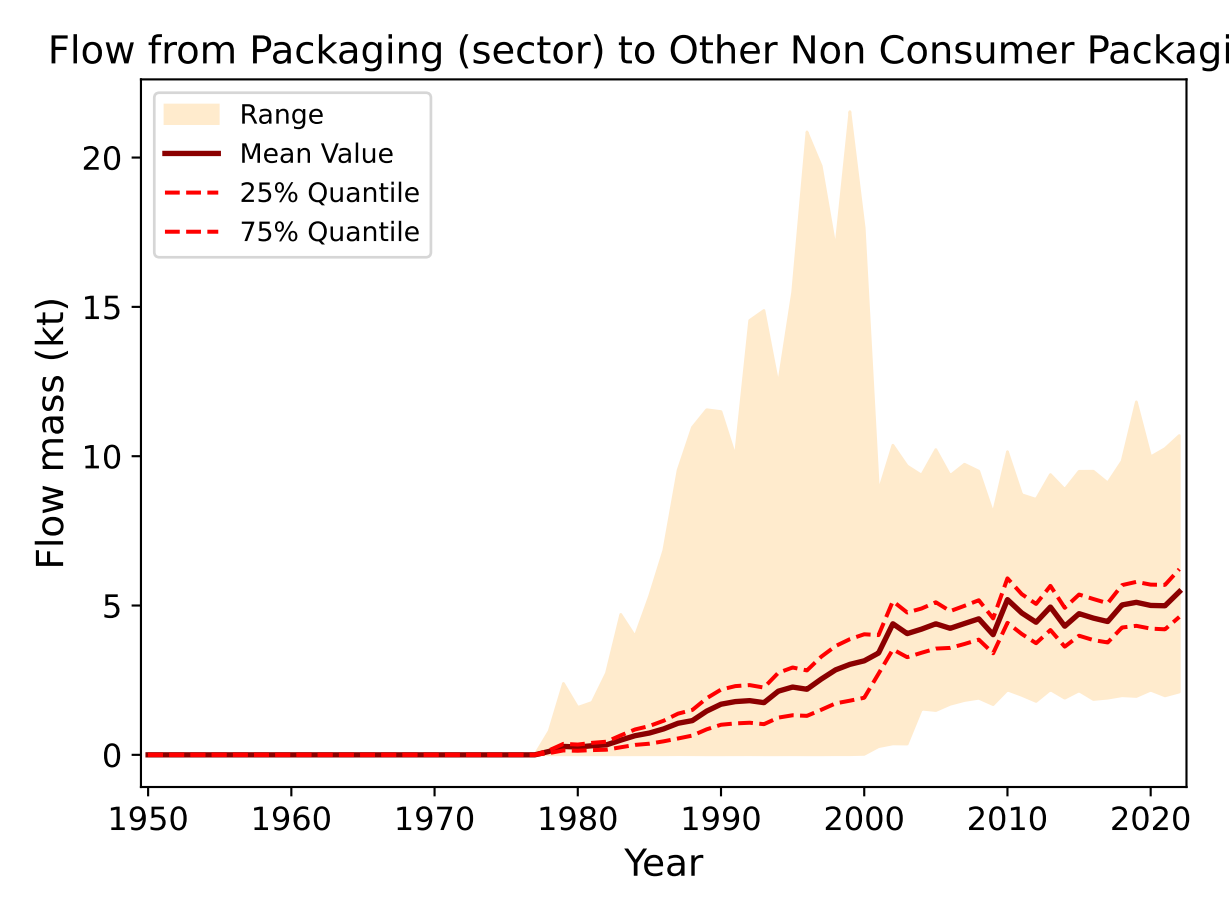

Flow from Packaging (sector) to Consumer Films
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
5
10
15
20
1950
1960
1970
1980
1990
2000
2010
2020
Year

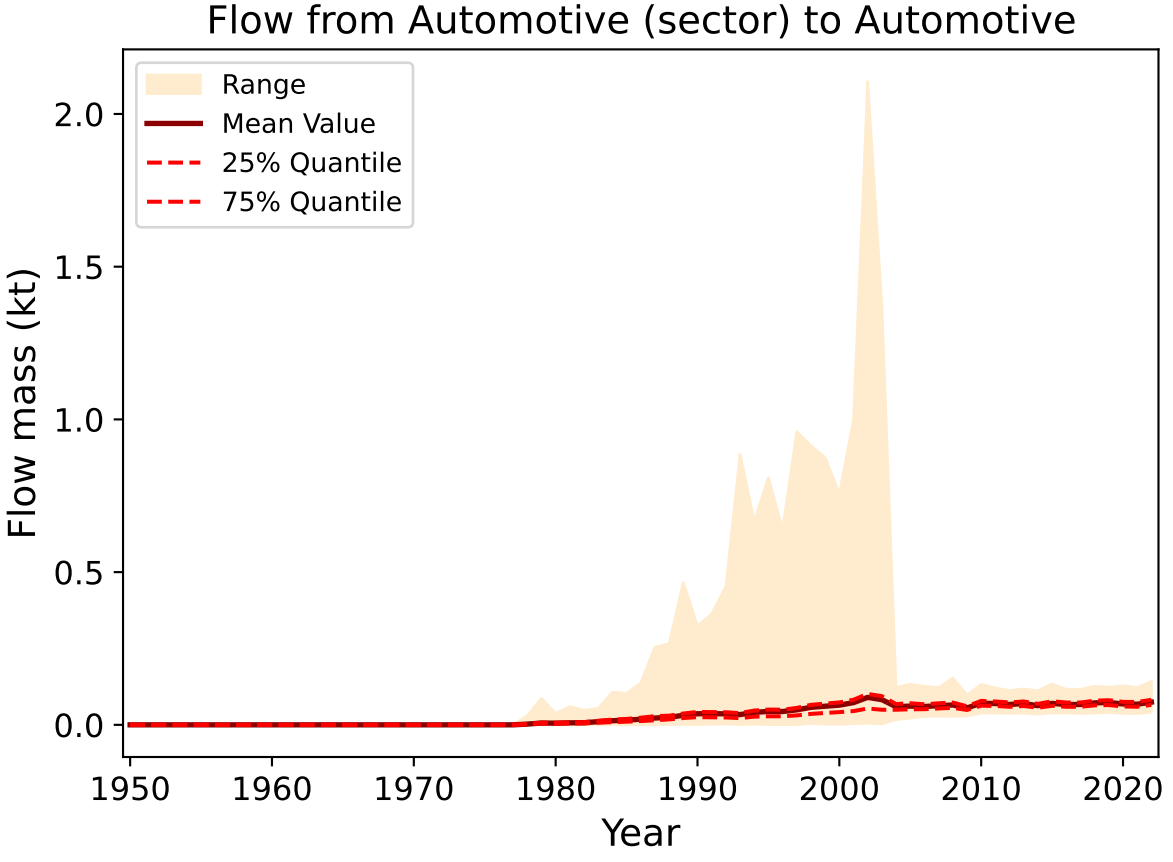

Flow from Packaging (sector) to Consumer Bags
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
1
2
3
4
5
1950
1960
1970
1980
1990
2000
2010
2020
Year

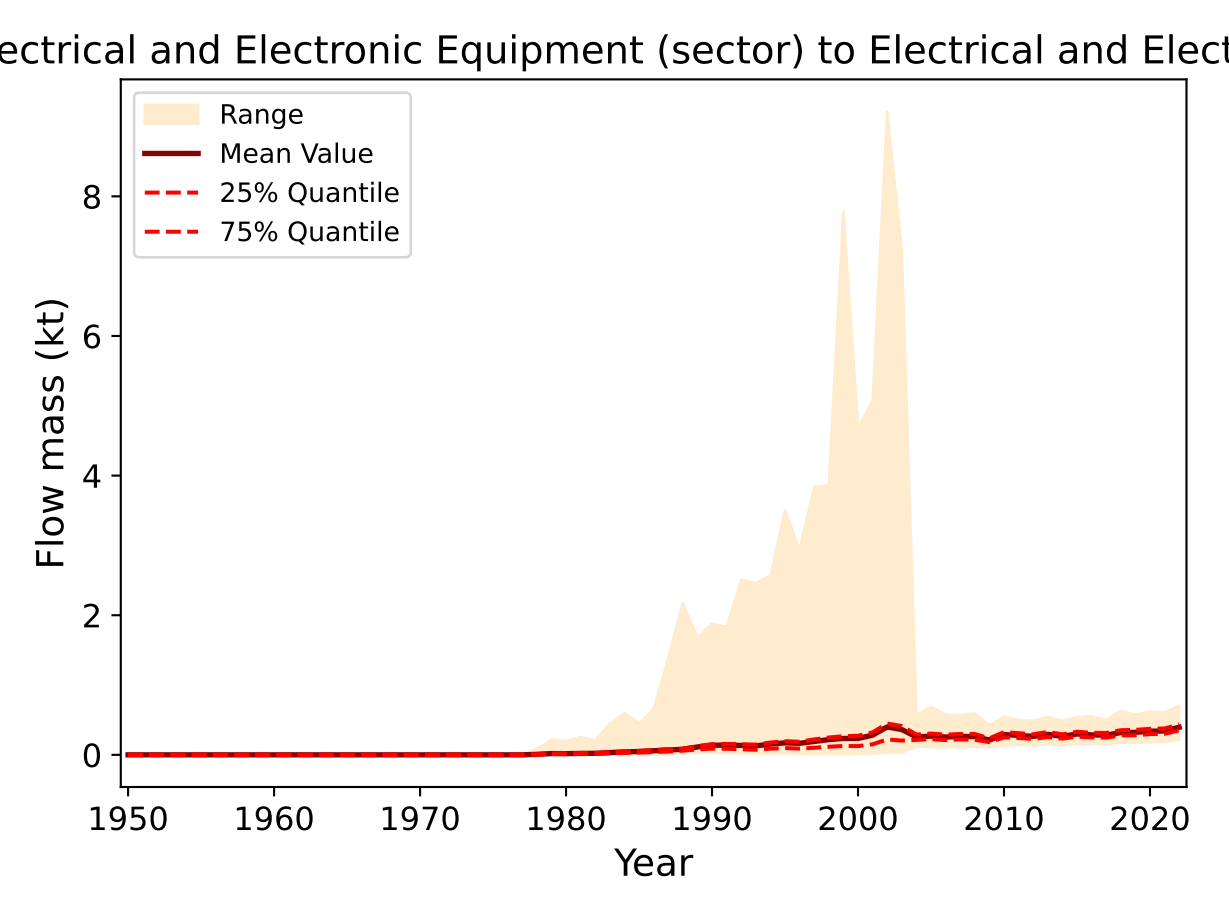

Flow from Packaging (sector) to Consumer Bottles
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
Year
0
10
20
30
40
50
60
70
1950
1960
1970
1980
1990
2000
2010
2020

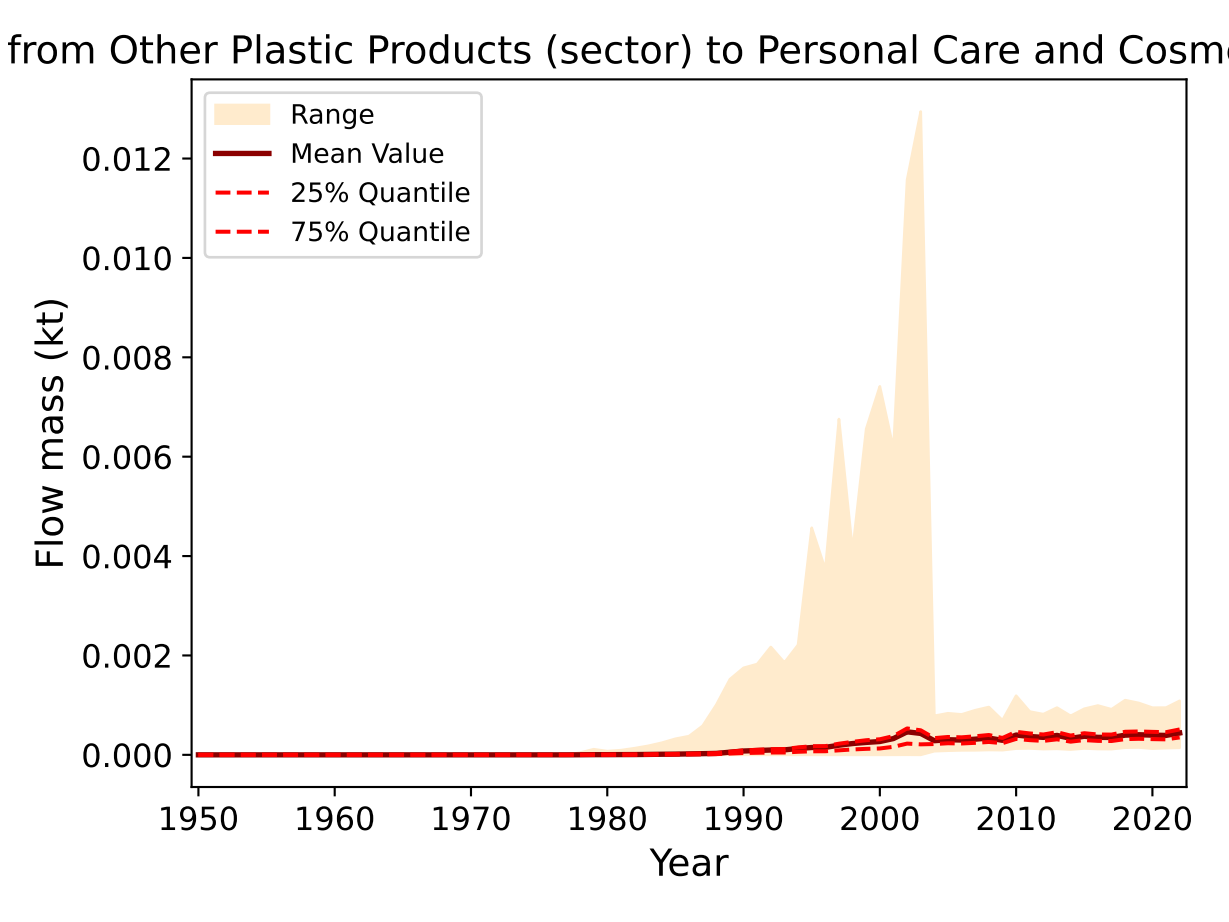

Flow from Packaging (sector) to Other Consumer Packaging
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
10
20
30
40
50
60
1950
1960
1970
1980
1990
2000
2010
2020
Year

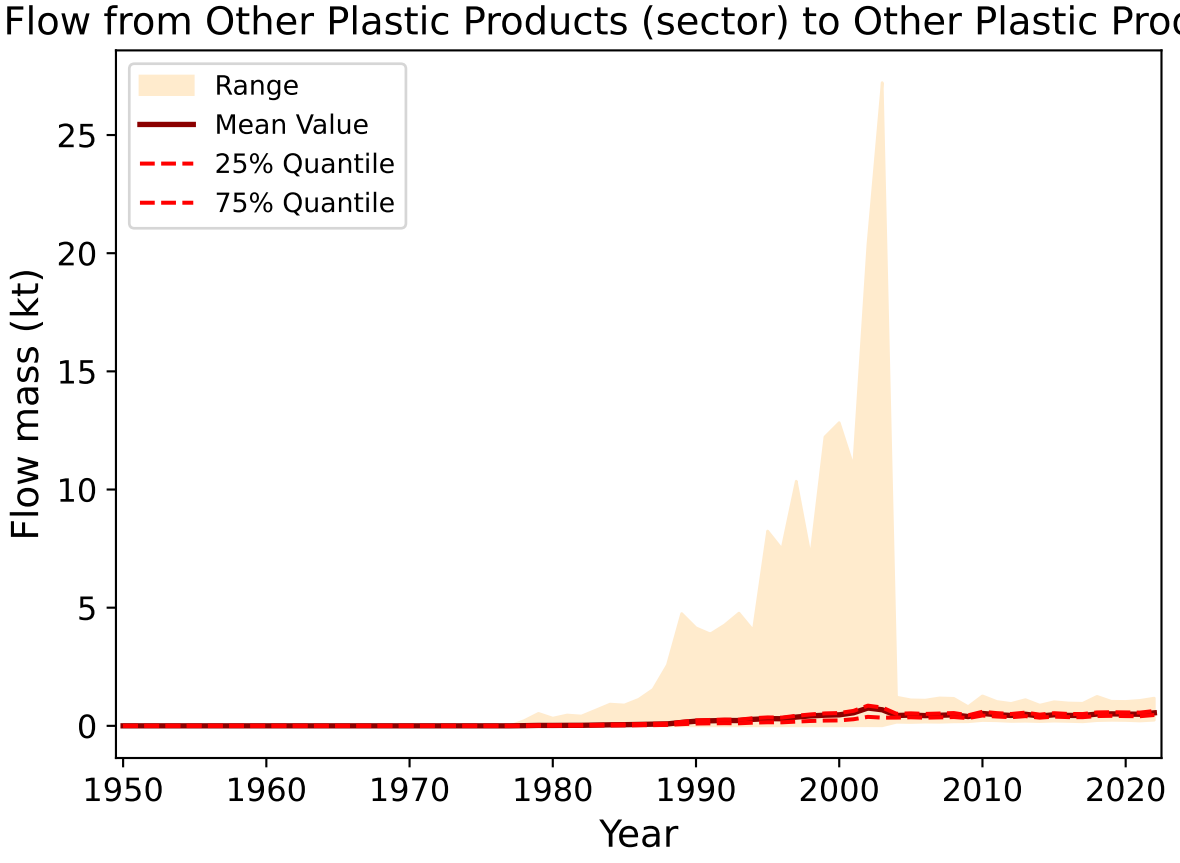

Flow from Packaging (sector) to Other Non Consumer Films
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
1
2
3
4
1950
1960
1970
1980
1990
2000
2010
2020
Year

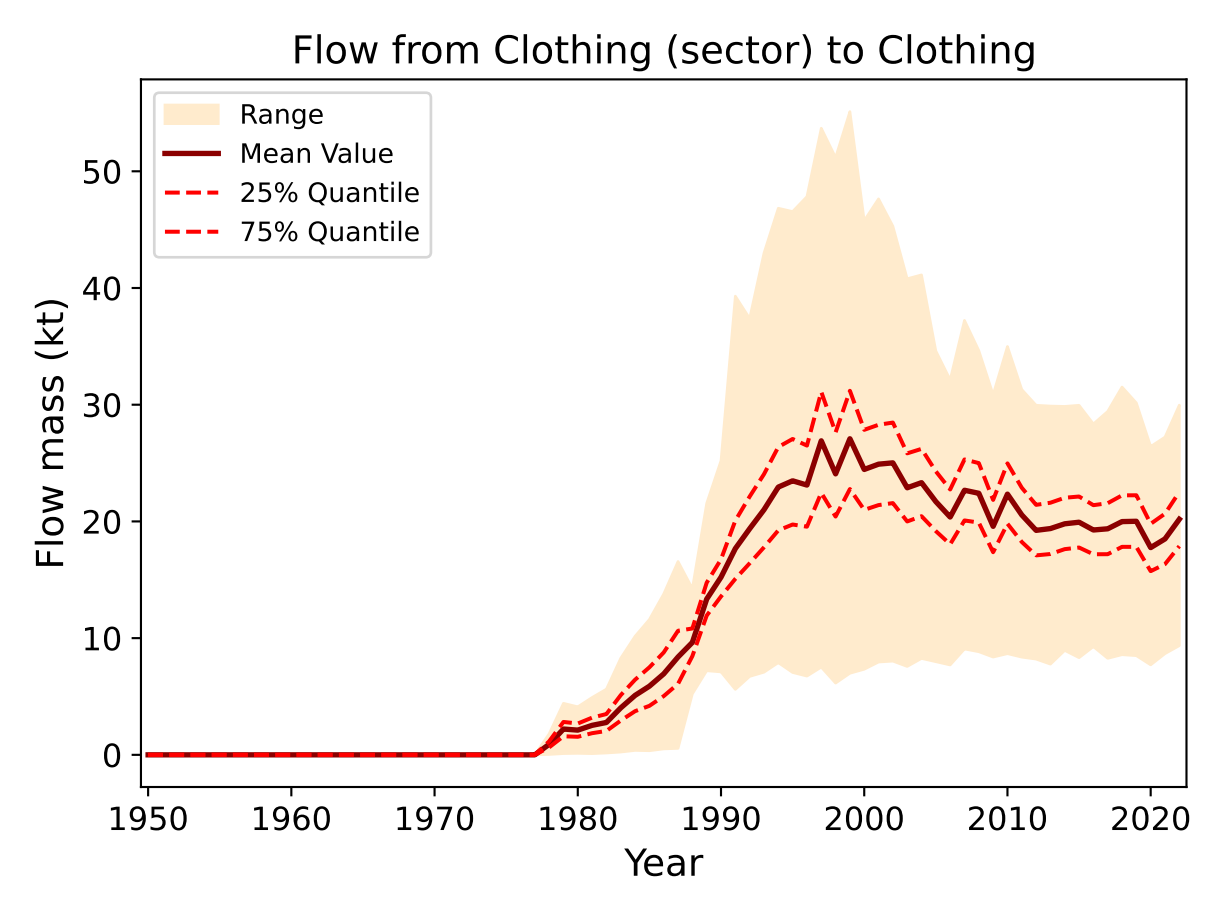

Flow from Packaging (sector) to Other Non Consumer Packagi
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
5
10
15
20
1950
1960
1970
1980
1990
2000
2010
2020
Year

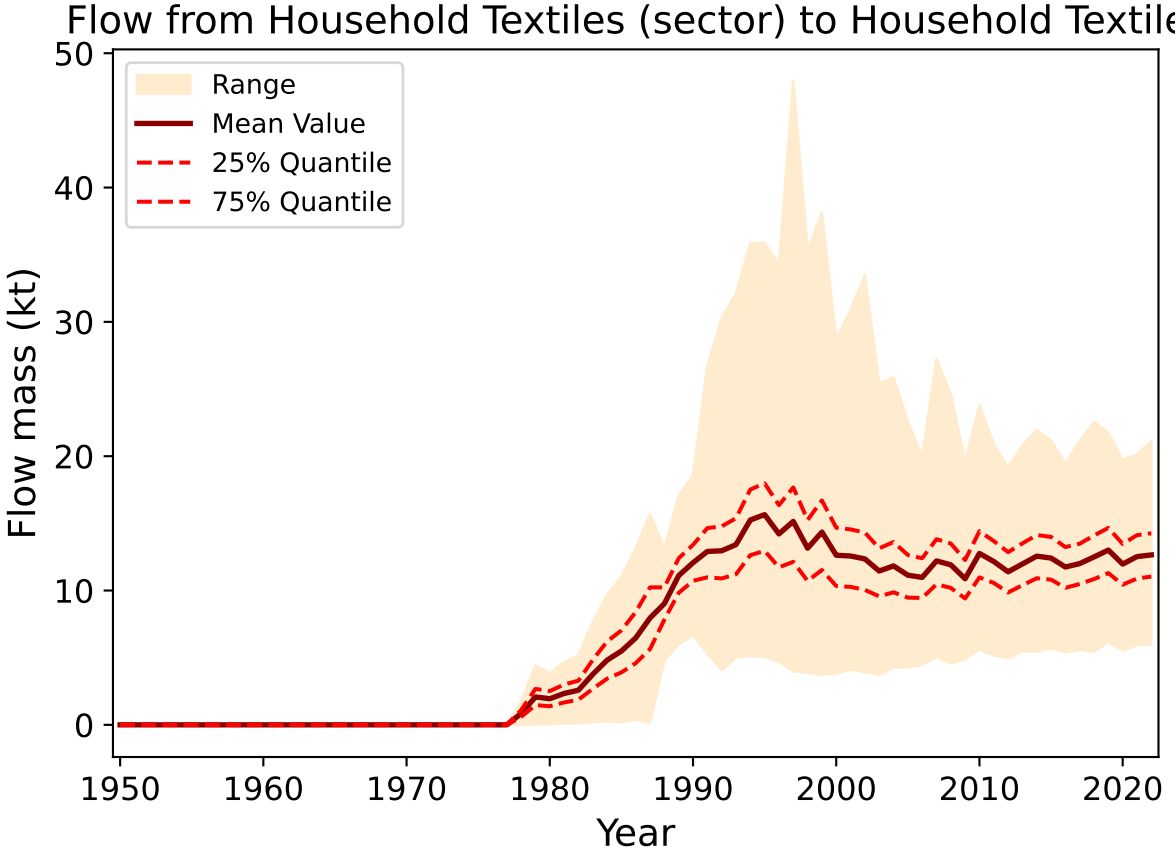

Flow from Automotive (sector) to Automotive
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
2.0
1.5
1.0
0.5
0.0
1950
1960
1970
1980
1990
2000
2010
2020
Year

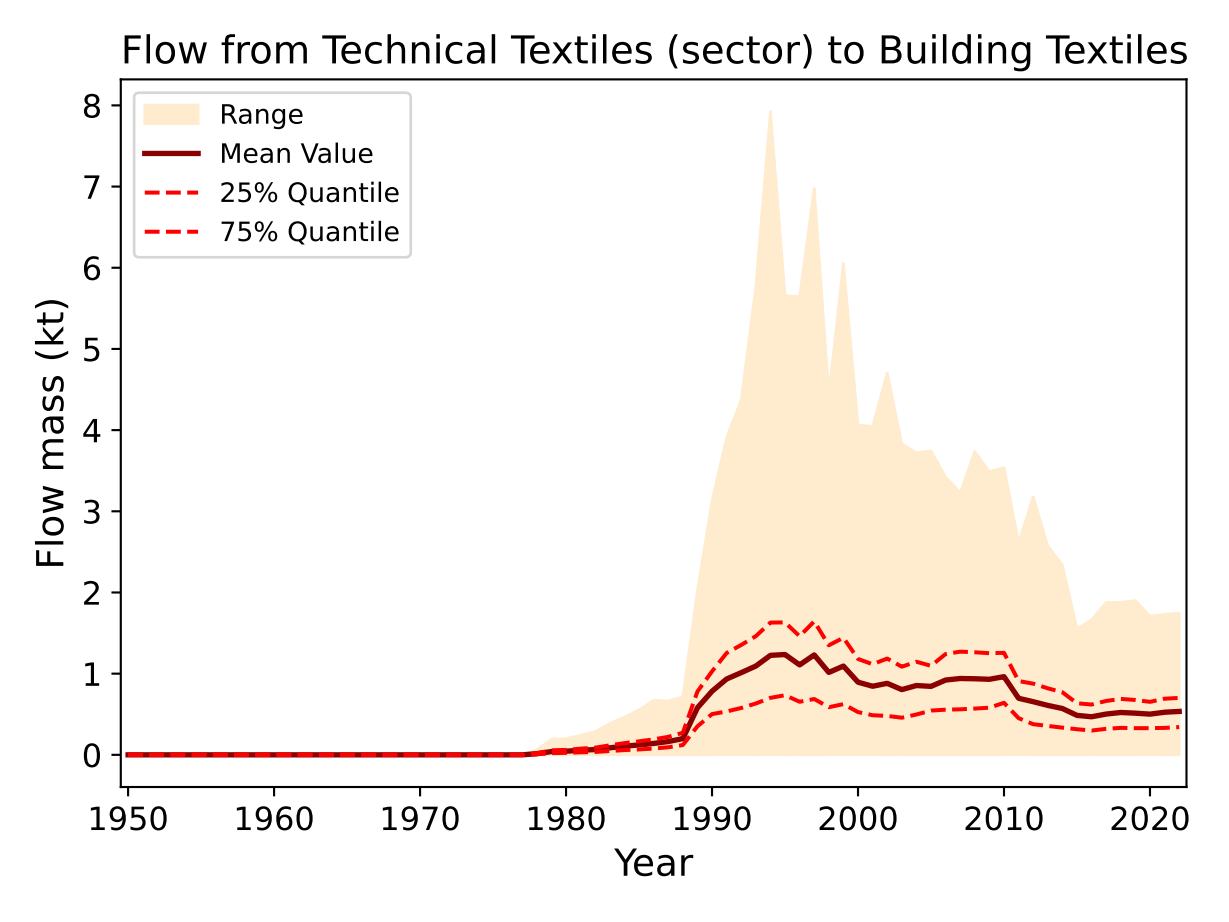

ectrical and Electronic Equipment (sector) to Electrical and Elect
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
2
4
6
8
1950
1960
1970
1980
1990
2000
2010
2020
Year

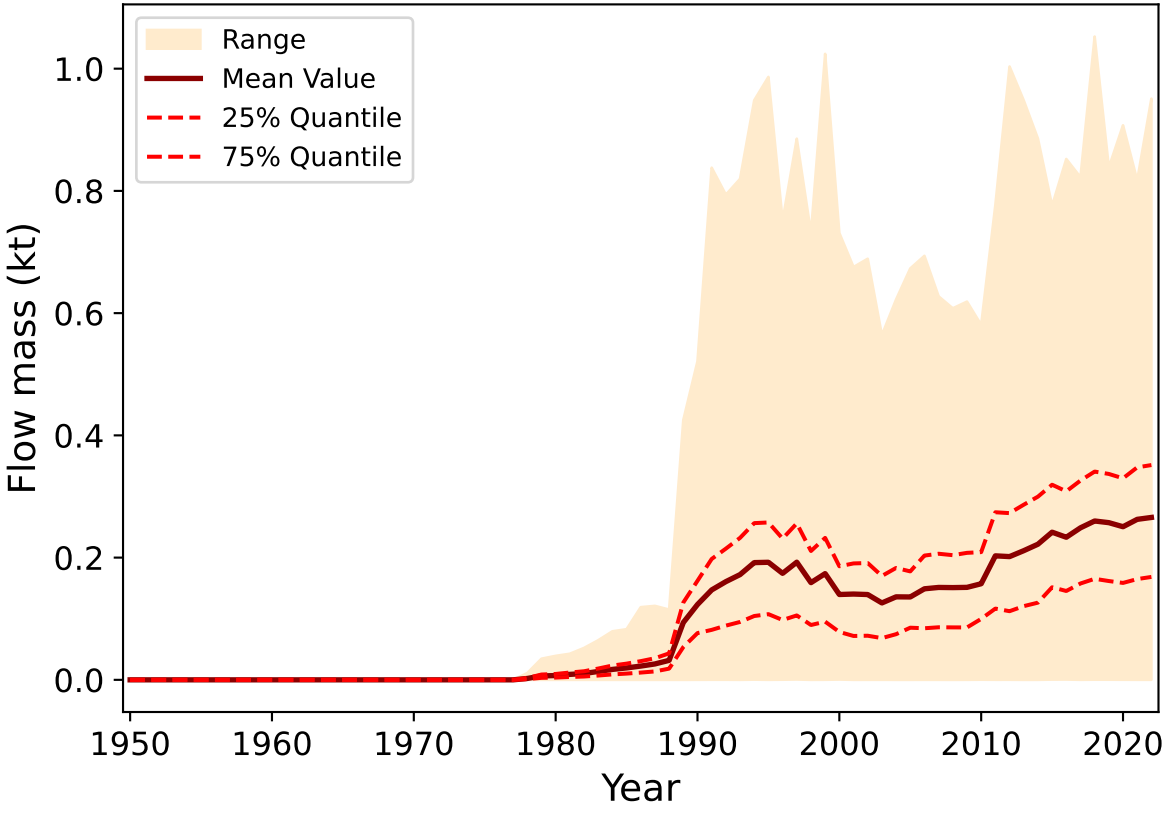

from Other Plastic Products (sector) to Personal Care and Cosm
Range
Mean Value
25% Quantile
75% Quantile
0.012
0.010
0.008
0.006
0.004
0.002
0.000
Flow mass (kt)
1950
1960
1970
1980
1990
2000
2010
2020
Year

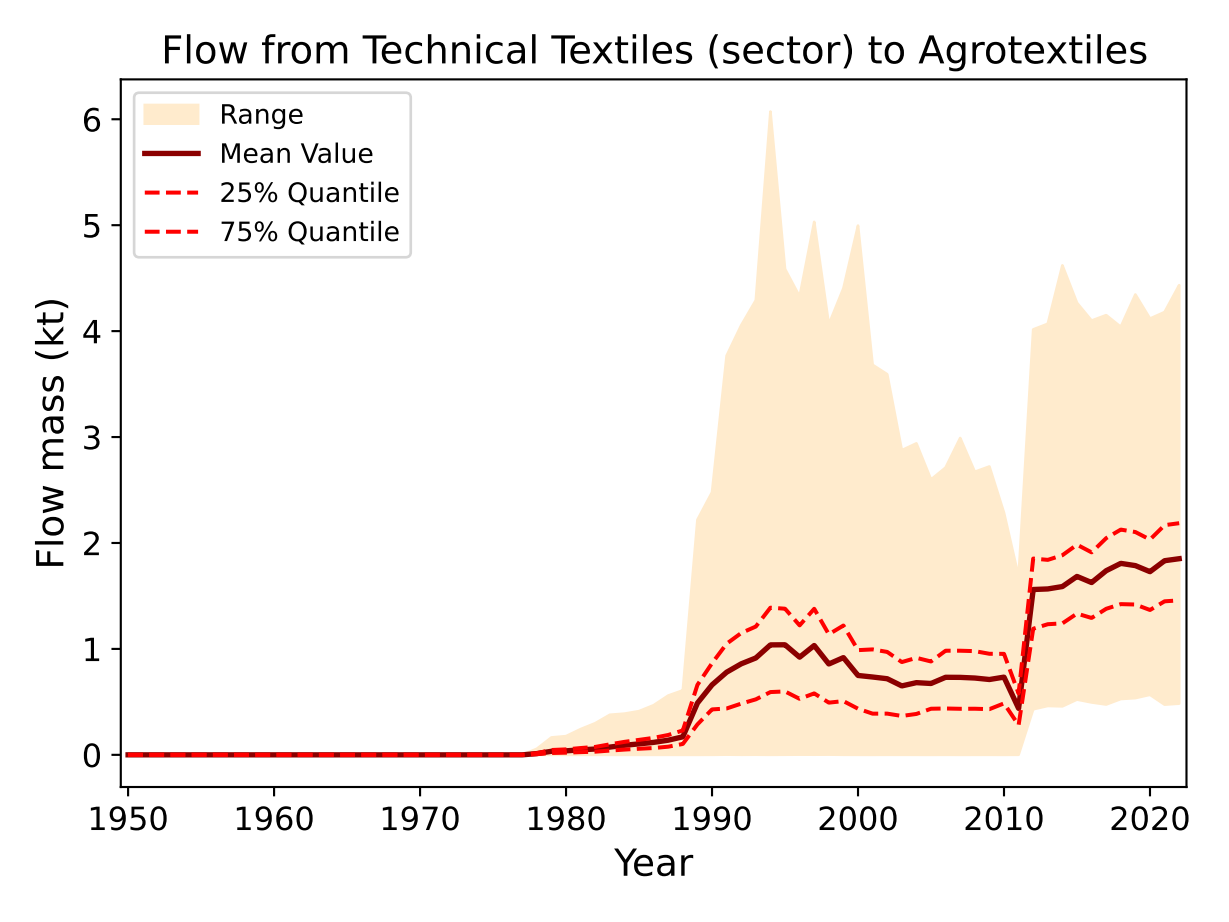

Flow from Other Plastic Products (sector) to Other Plastic Produ
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
5
10
15
20
25
1950
1960
1970
1980
1990
2000
2010
2020
Year

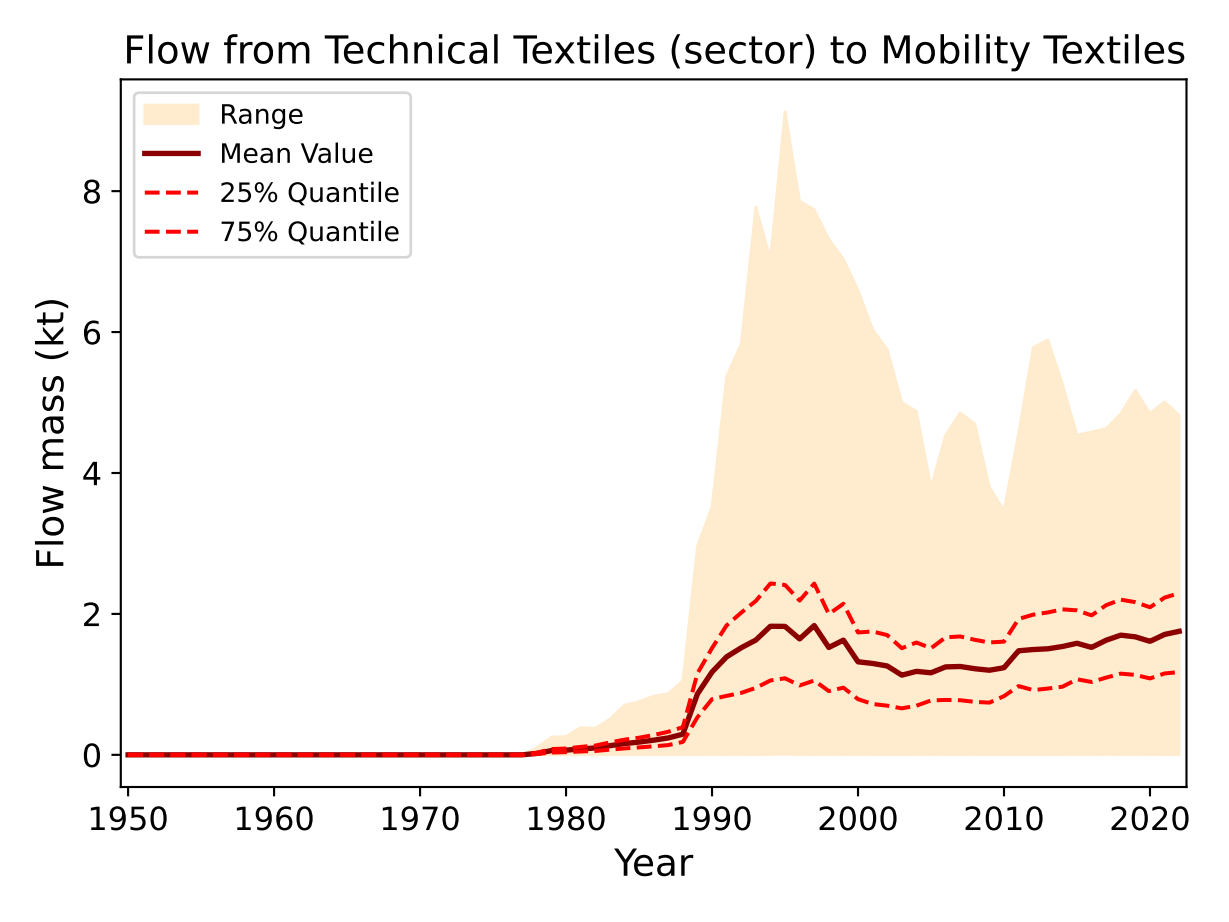

Flow from Clothing (sector) to Clothing
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
10
20
30
40
50
1950
1960
1970
1980
1990
2000
2010
2020
Year

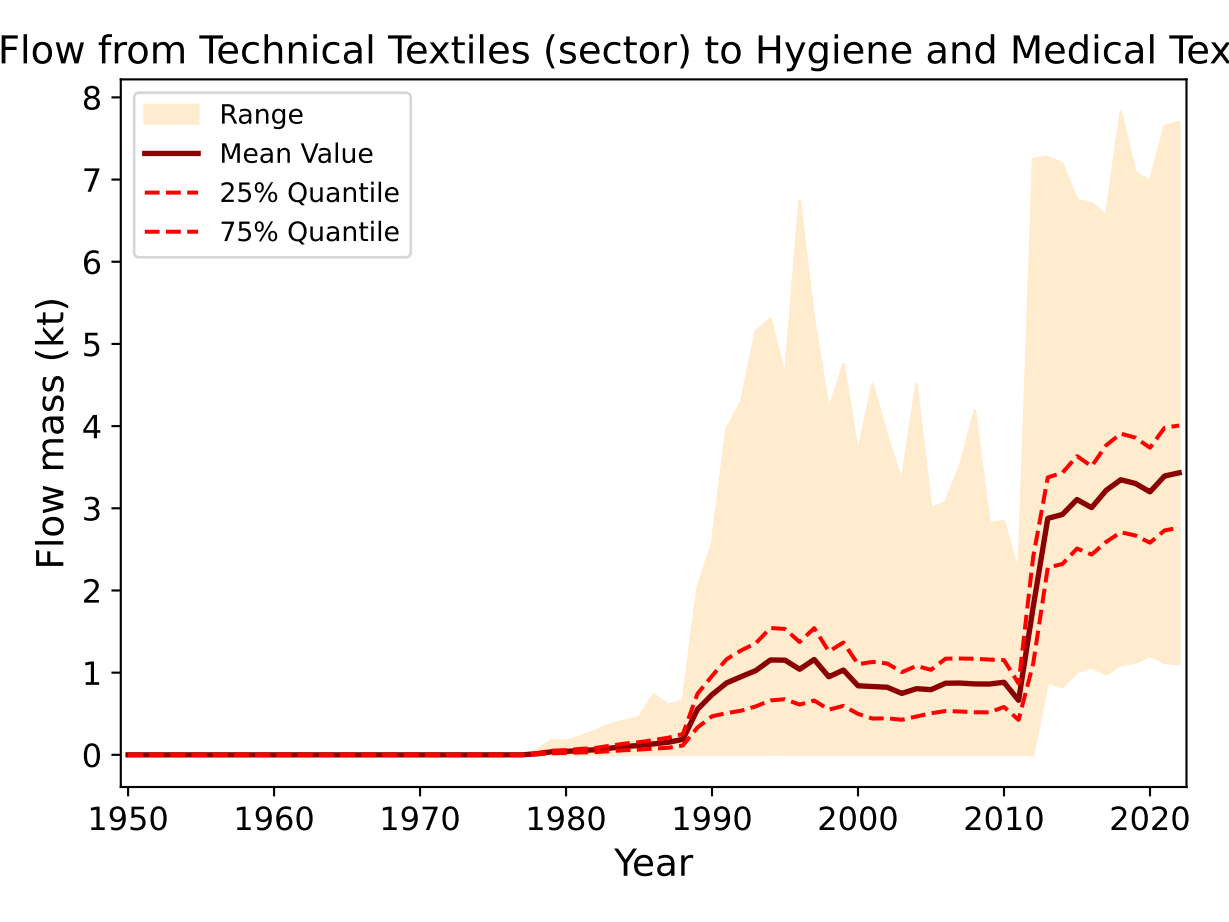

Flow from Household Textiles (sector) to Household Textiles
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
Year
0
10
20
30
40
50
1950
1960
1970
1980
1990
2000
2010
2020

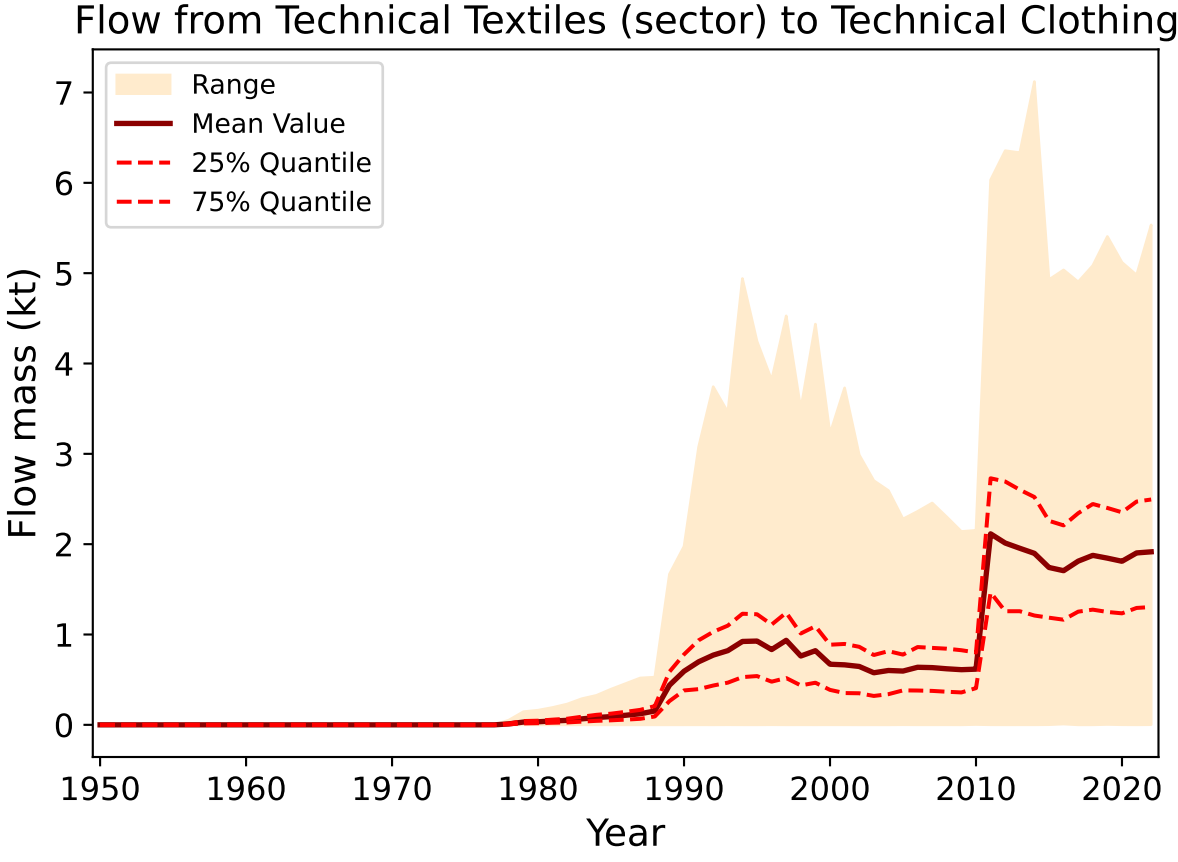

Flow from Technical Textiles (sector) to Building Textiles
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
1
2
3
4
5
6
7
8
1950
1960
1970
1980
1990
2000
2010
2020
Year

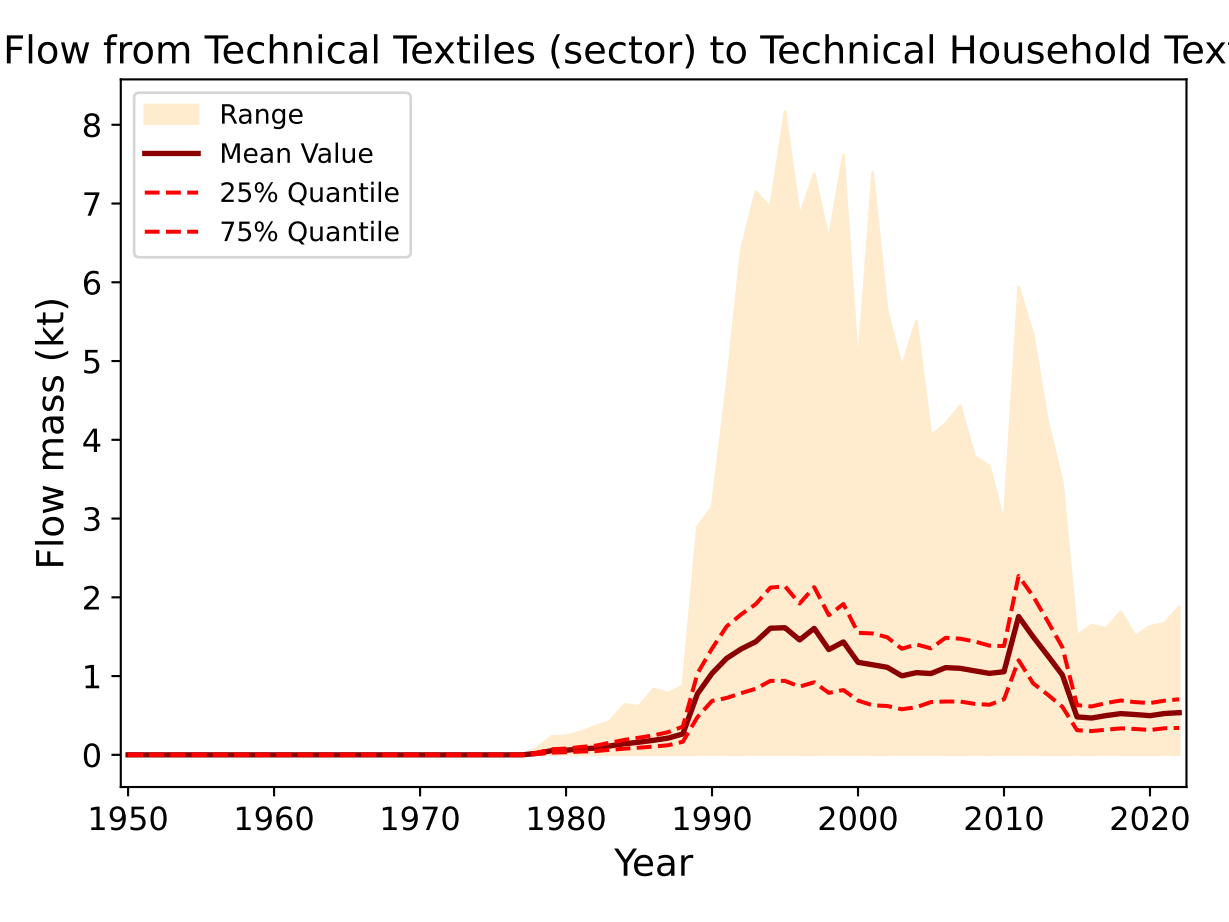

Flow from Technical Textiles (sector) to Geotextiles
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0
0.2
0.4
0.6
0.8
1.0
1950
1960
1970
1980
1990
2000
2010
2020
Year

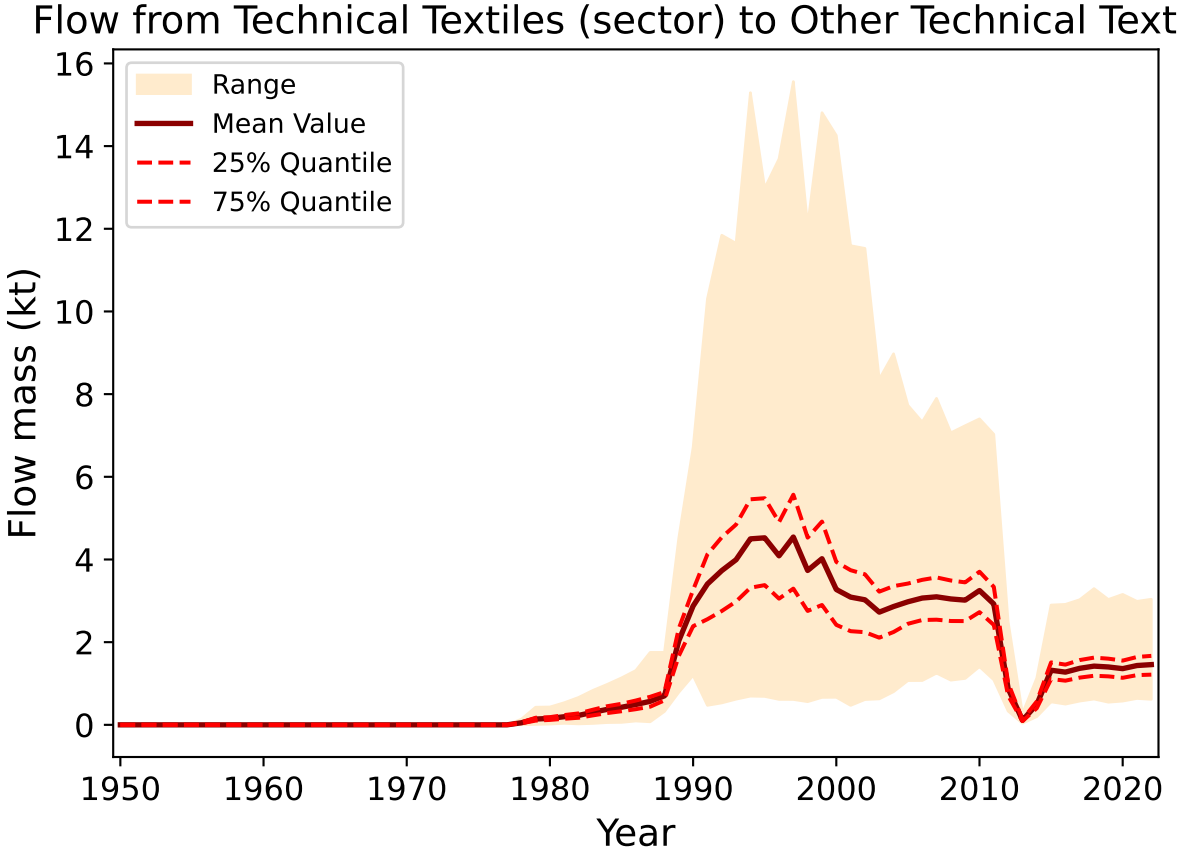

Flow from Technical Textiles (sector) to Agrotextiles
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
1
2
3
4
5
6
1950
1960
1970
1980
1990
2000
2010
2020
Year

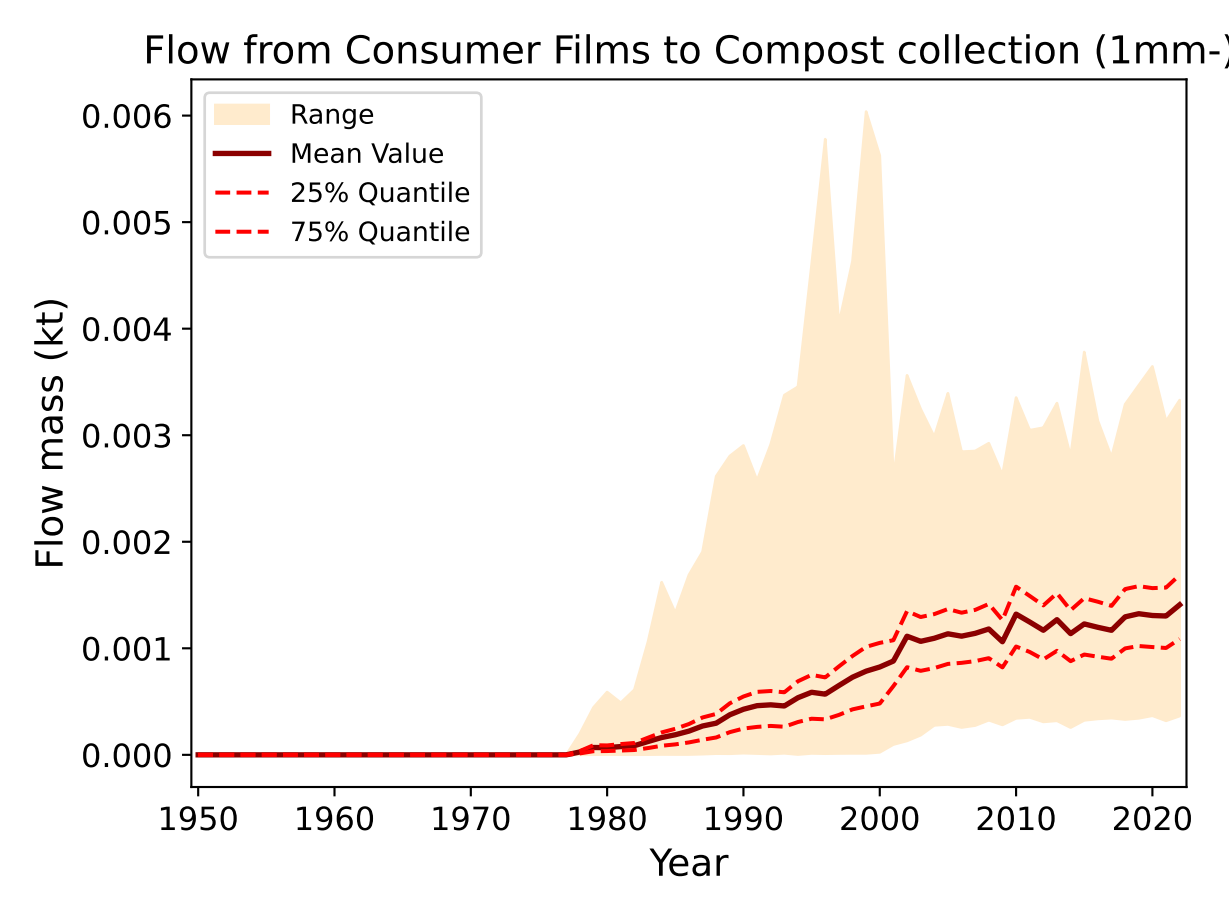

Flow from Technical Textiles (sector) to Mobility Textiles
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
2
4
6
8
1950
1960
1970
1980
1990
2000
2010
2020
Year

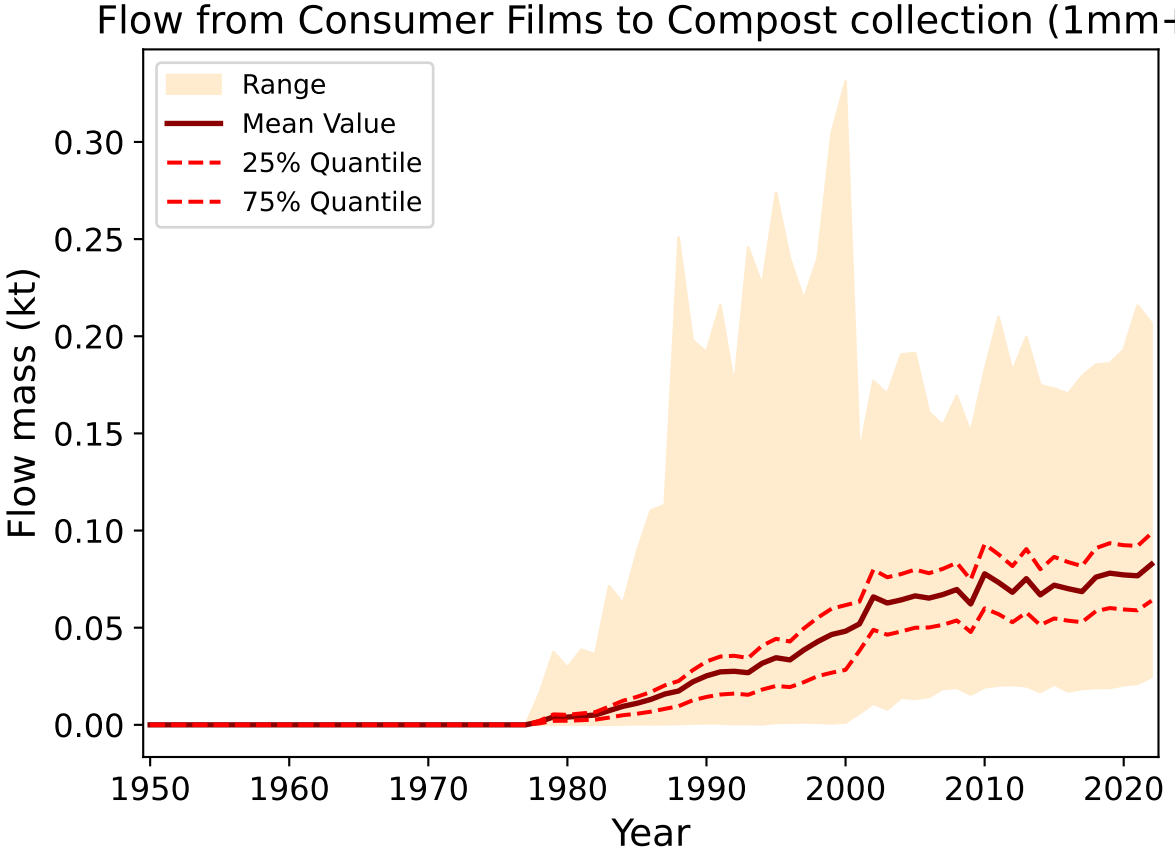

Flow from Technical Textiles (sector) to Hygiene and Medical Tex
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
1
2
3
4
5
6
7
8
1950
1960
1970
1980
1990
2000
2010
2020
Year

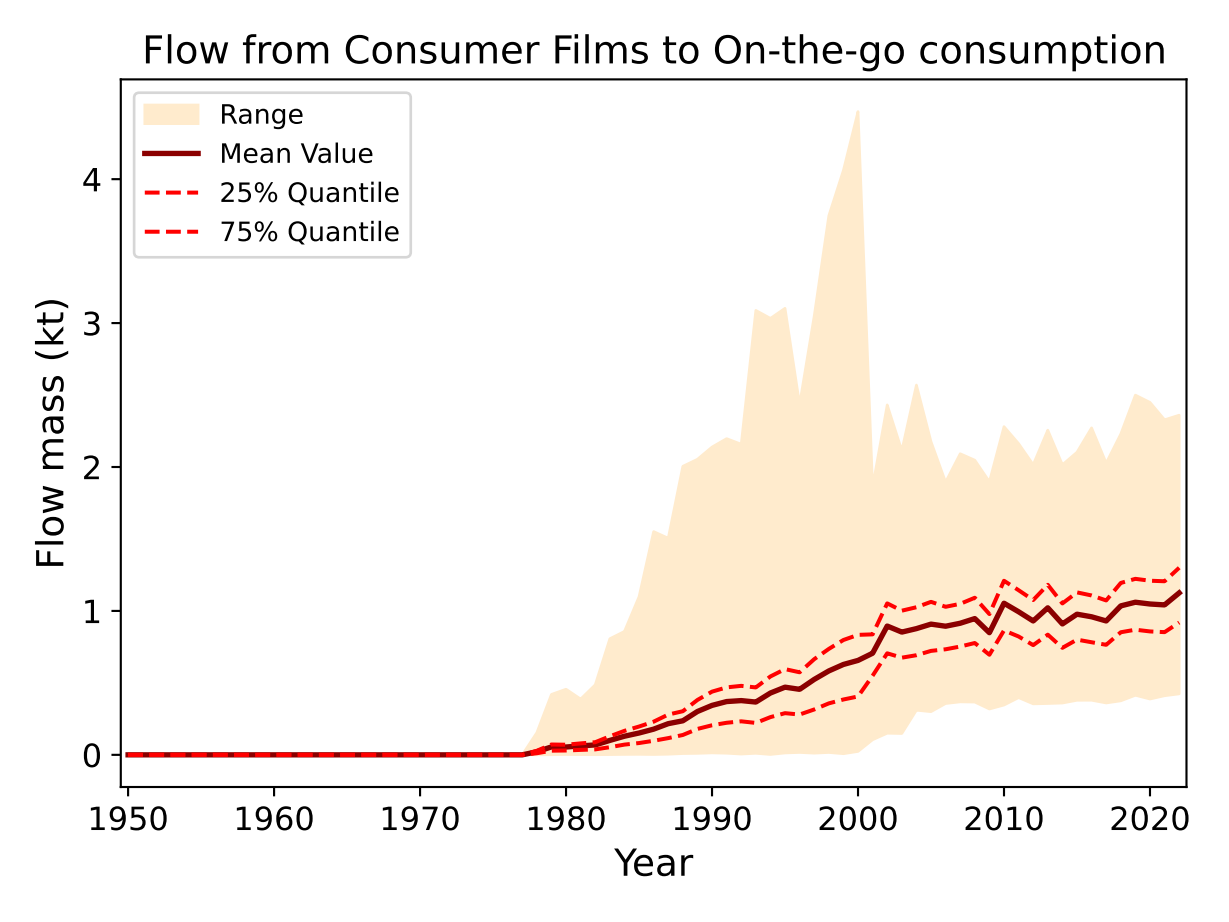

Flow from Technical Textiles (sector) to Technical Clothing
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
1
2
3
4
5
6
7
1950
1960
1970
1980
1990
2000
2010
2020
Year

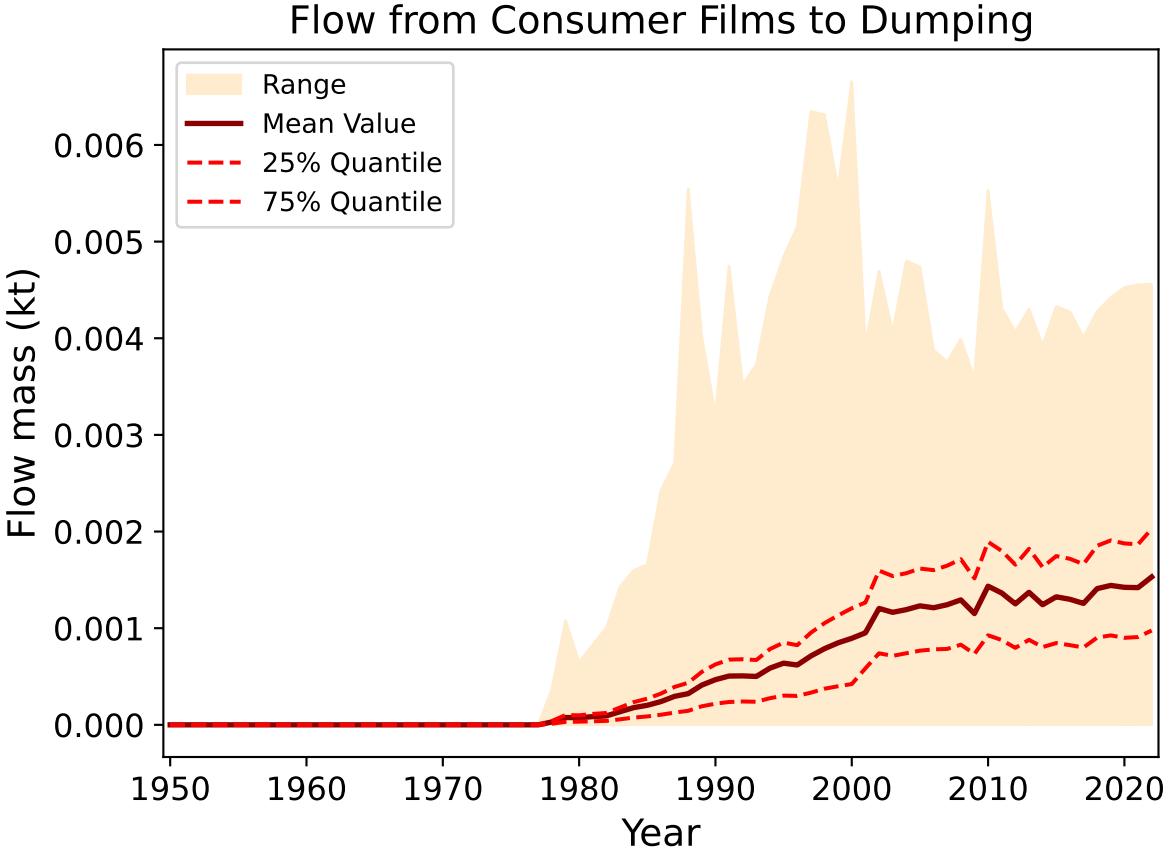

Flow from Technical Textiles (sector) to Technical Household Tex
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
1
2
3
4
5
6
7
8
1950
1960
1970
1980
1990
2000
2010
2020
Year

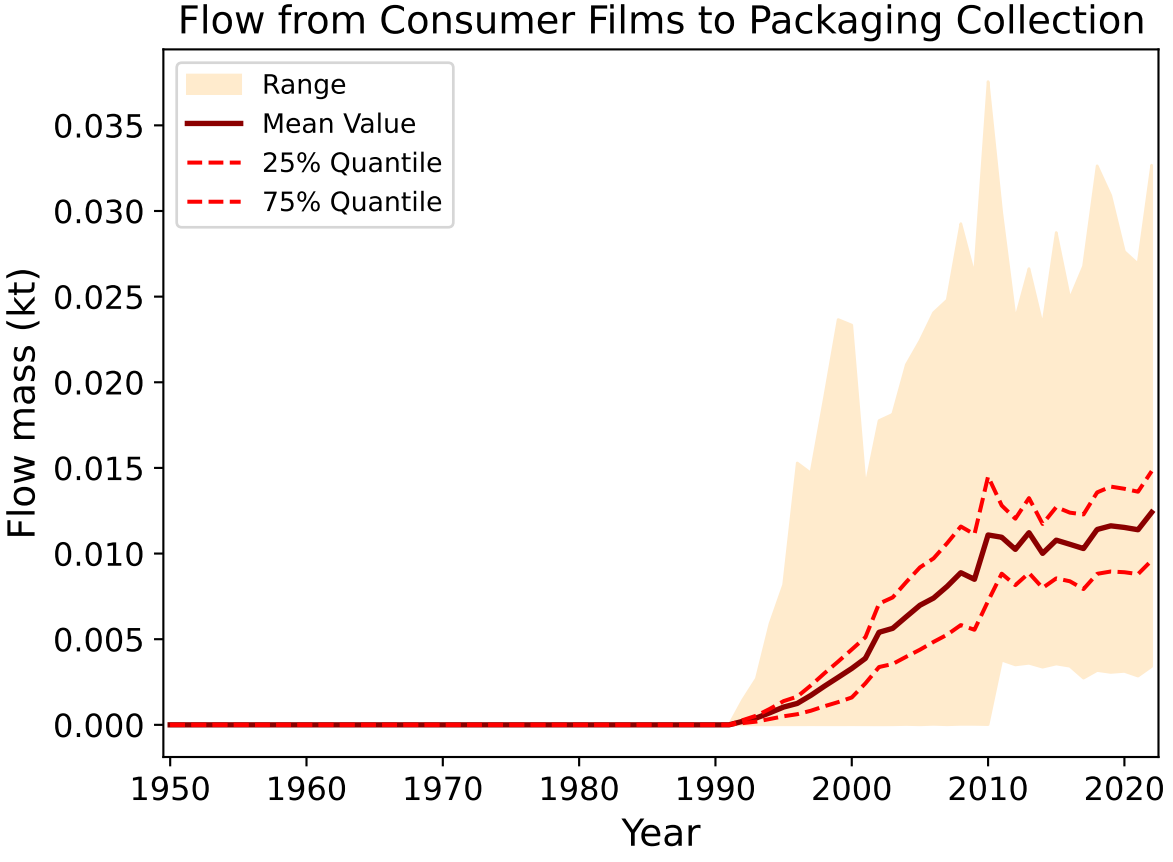

Flow from Technical Textiles (sector) to Other Technical Textil
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
2
4
6
8
10
12
14
16
1950
1960
1970
1980
1990
2000
2010
2020
Year

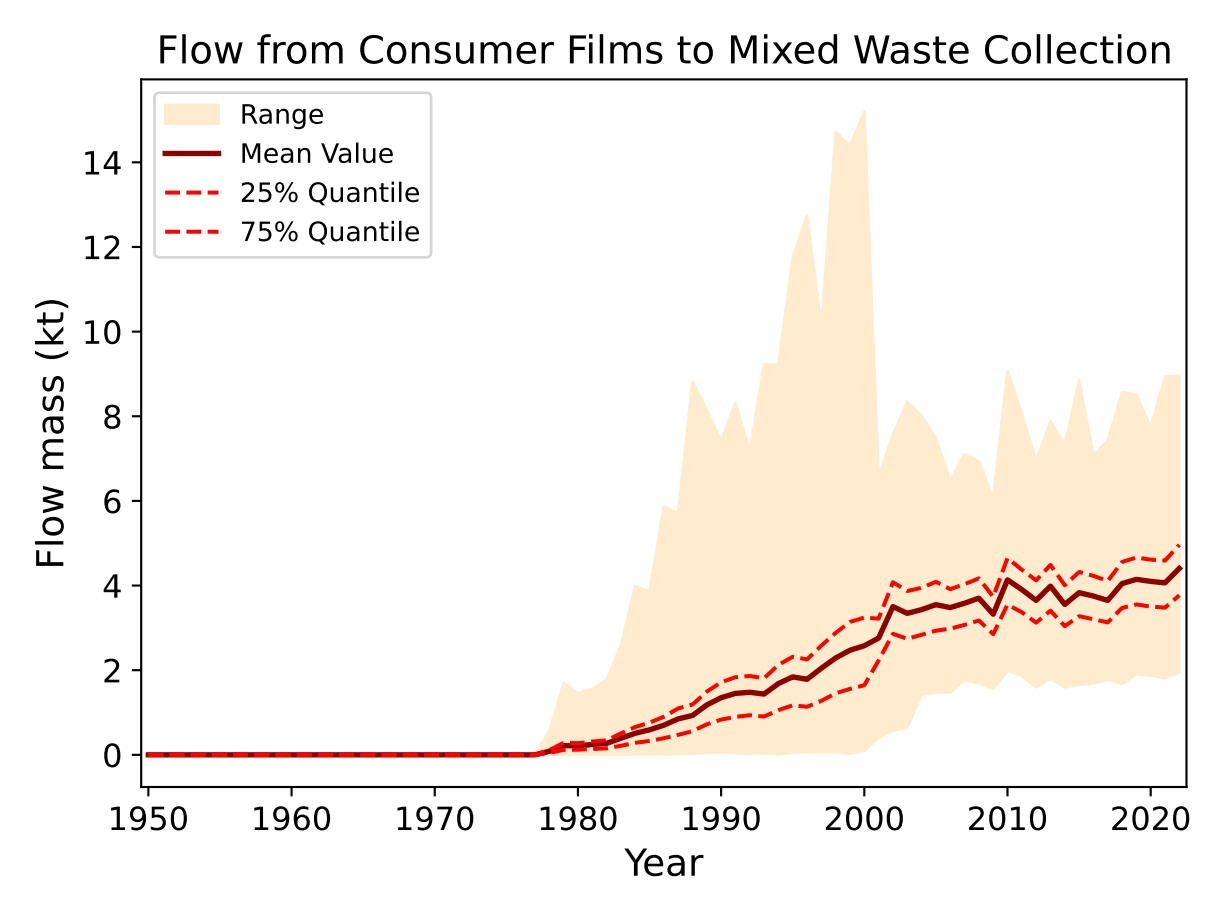

Flow from Consumer Films to Compost collection (1mm-)
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.006
0.005
0.004
0.003
0.002
0.001
0.000
1950
1960
1970
1980
1990
2000
2010
2020
Year

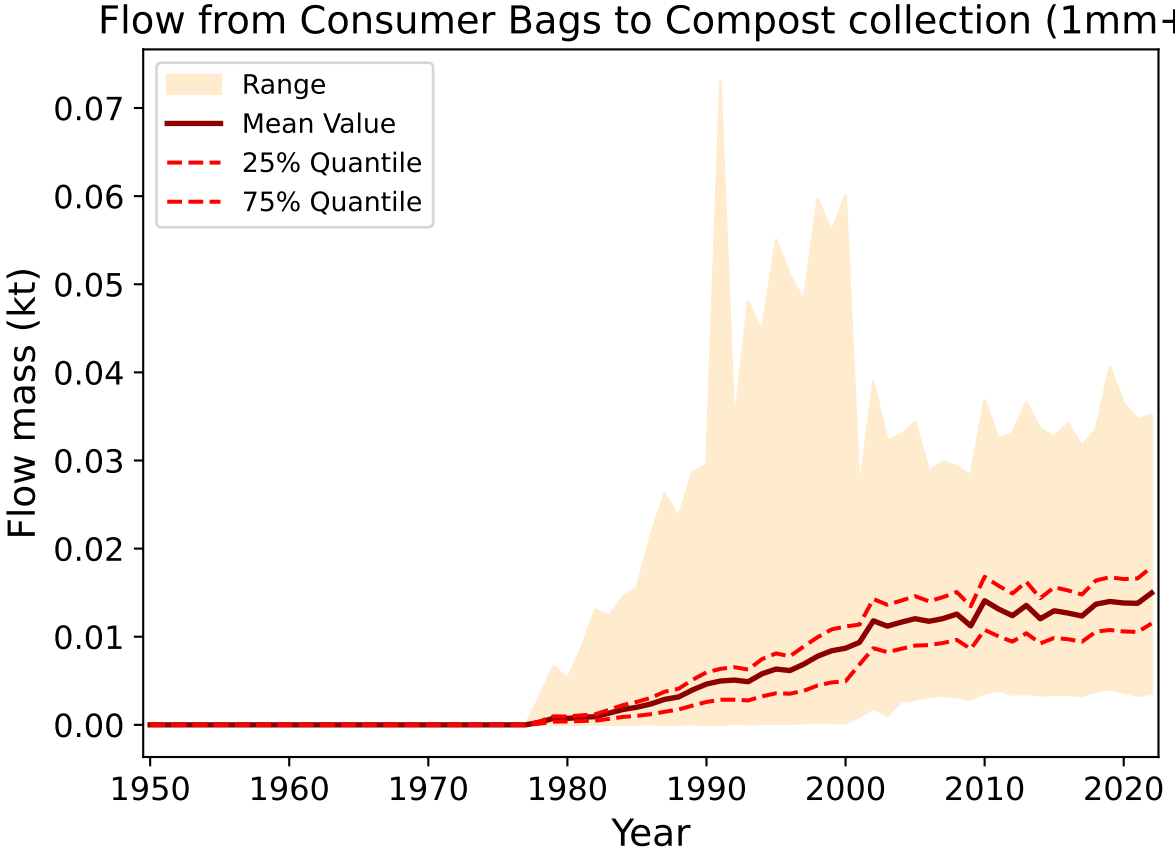

Flow from Consumer Films to Compost collection (1mm+)
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.00
0.05
0.10
0.15
0.20
0.25
0.30
1950
1960
1970
1980
1990
2000
2010
2020
Year

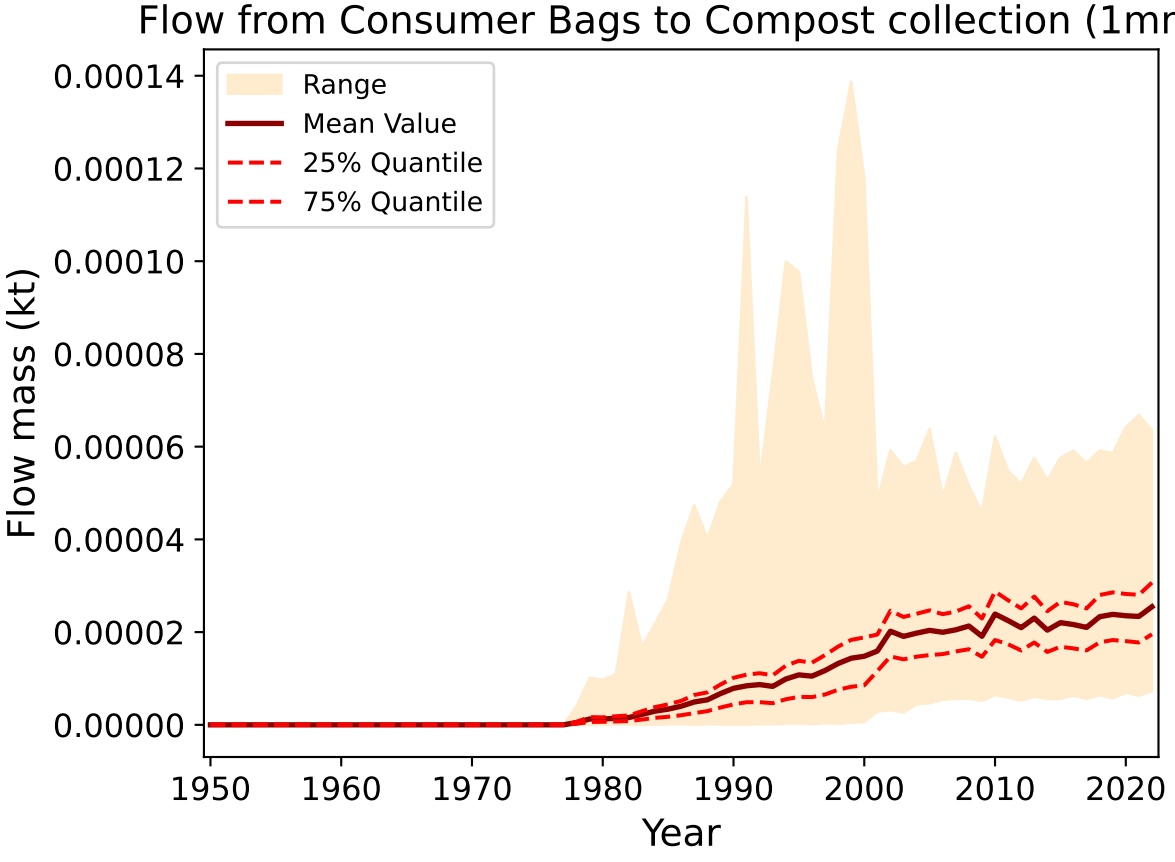

Flow from Consumer Films to On-the-go consumption
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
1
2
3
4
1950
1960
1970
1980
1990
2000
2010
2020
Year

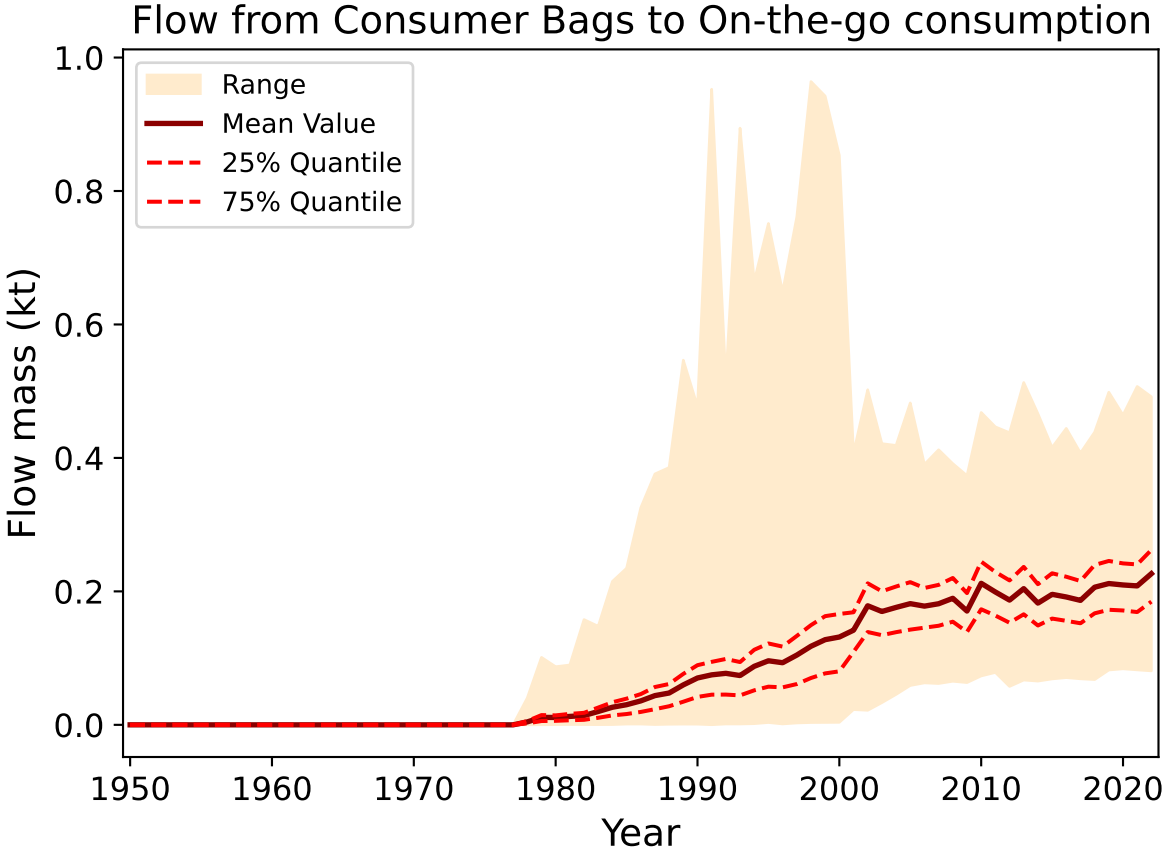

Flow from Consumer Films to Dumping
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.000
0.001
0.002
0.003
0.004
0.005
0.006
1950
1960
1970
1980
1990
2000
2010
2020
Year

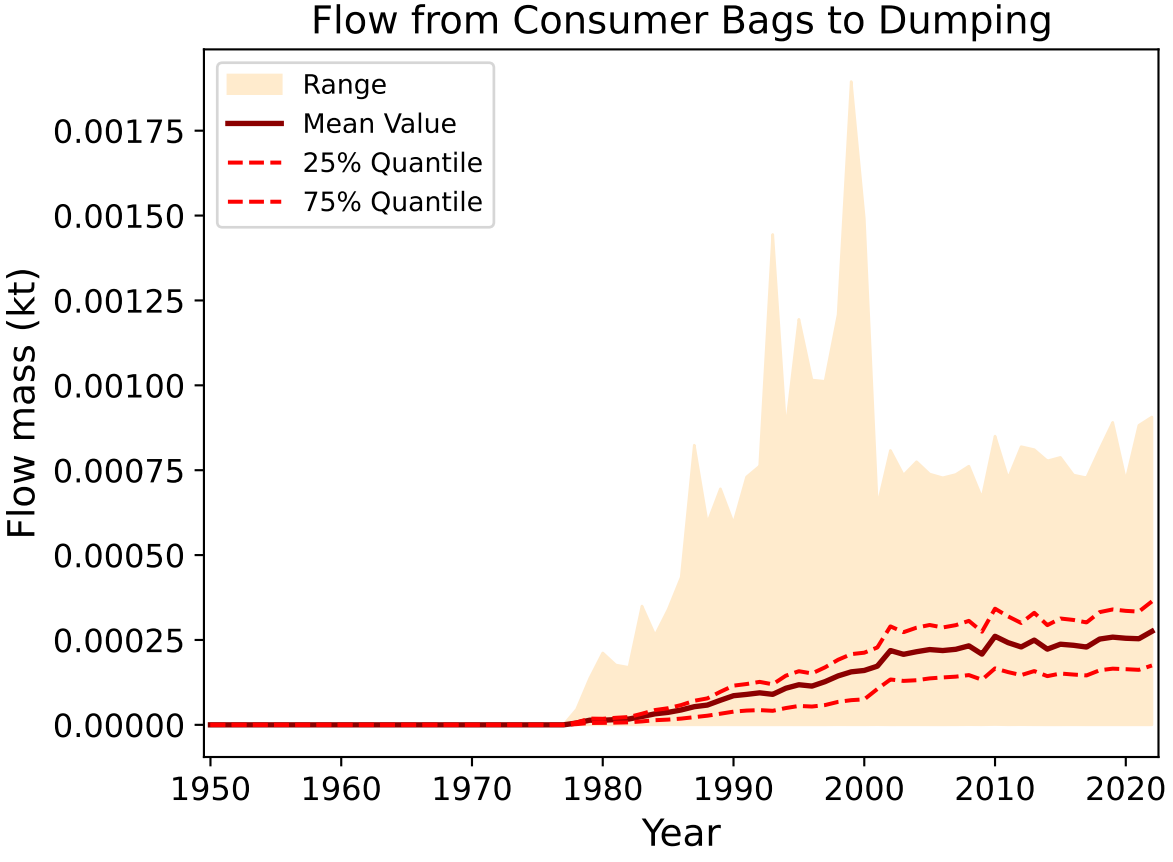

Flow from Consumer Films to Packaging Collection
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
1950
1960
1970
1980
1990
2000
2010
2020
Year

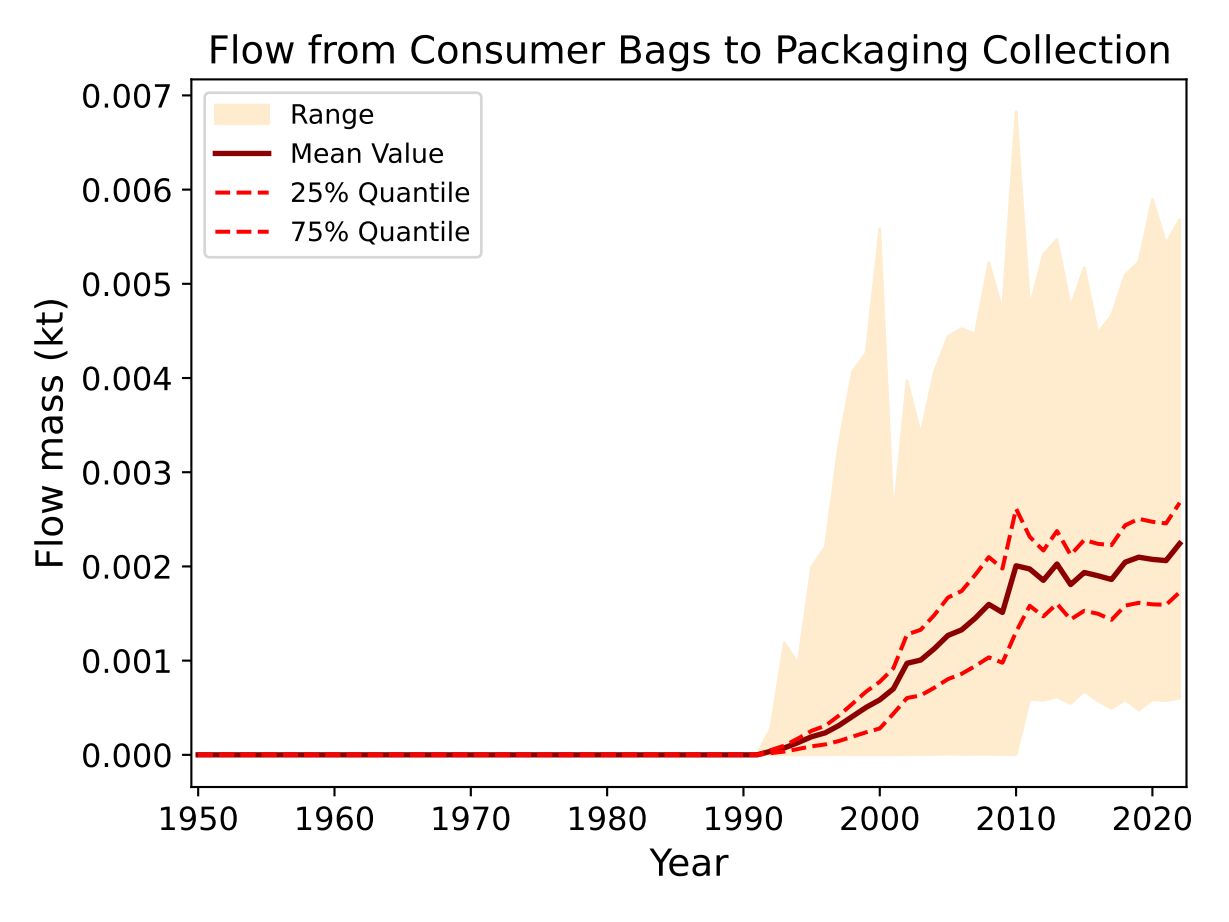

Flow from Consumer Films to Mixed Waste Collection
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
2
4
6
8
10
12
14
1950
1960
1970
1980
1990
2000
2010
2020
Year

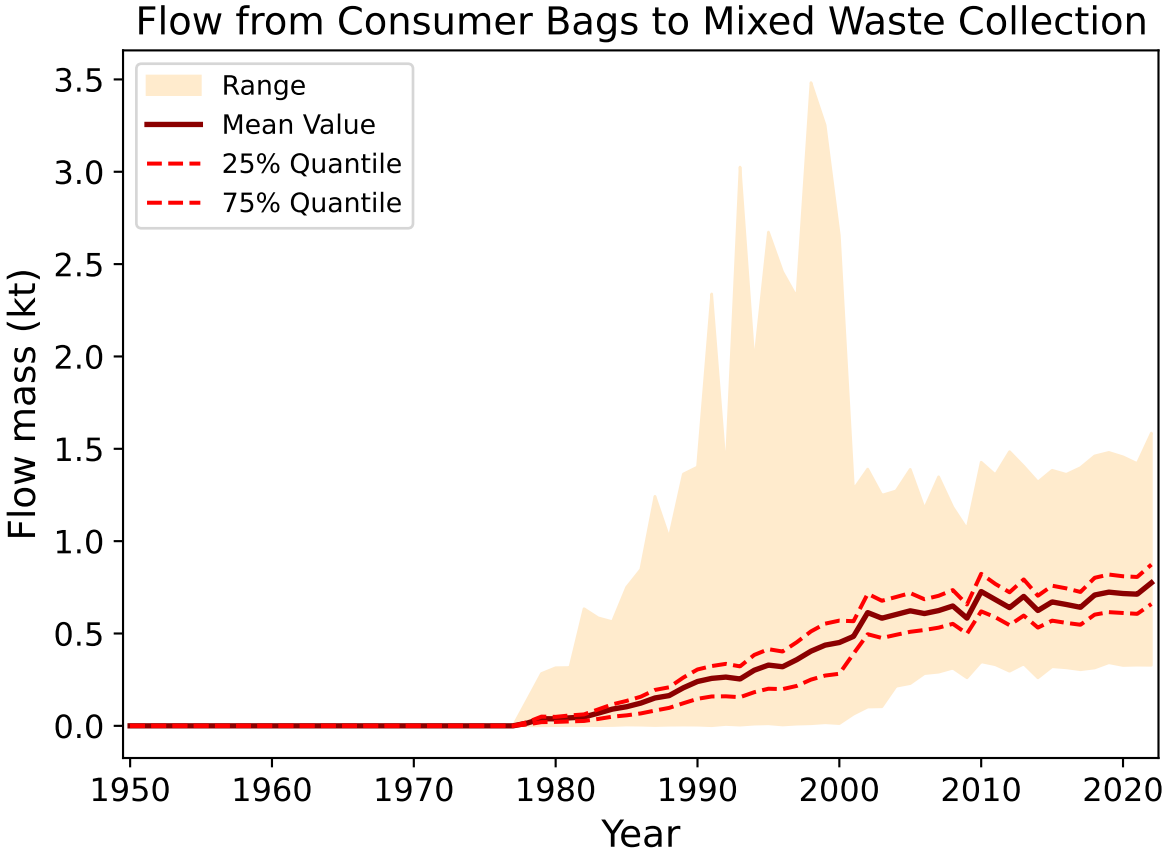

Flow from Consumer Bags to Compost collection (1mm+)
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.00
0.01
0.02
0.03
0.04
0.05
0.06
0.07
1950
1960
1970
1980
1990
2000
2010
2020
Year

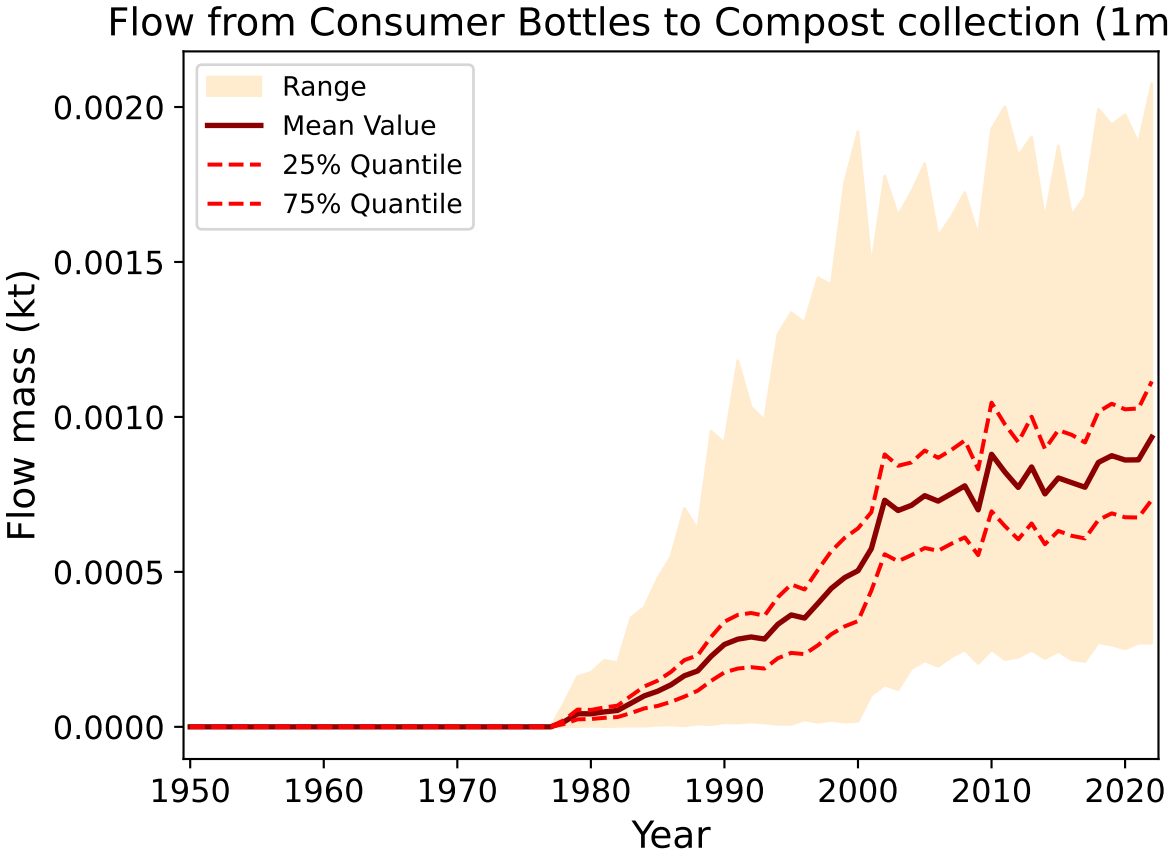

Flow from Consumer Bags to Compost collection (1mm
Range
Mean Value
25% Quantile
75% Quantile
0.00014
0.00012
0.00010
0.00008
0.00006
0.00004
0.00002
0.00000
Flow mass (kt)
1950
1960
1970
1980
1990
2000
2010
2020
Year

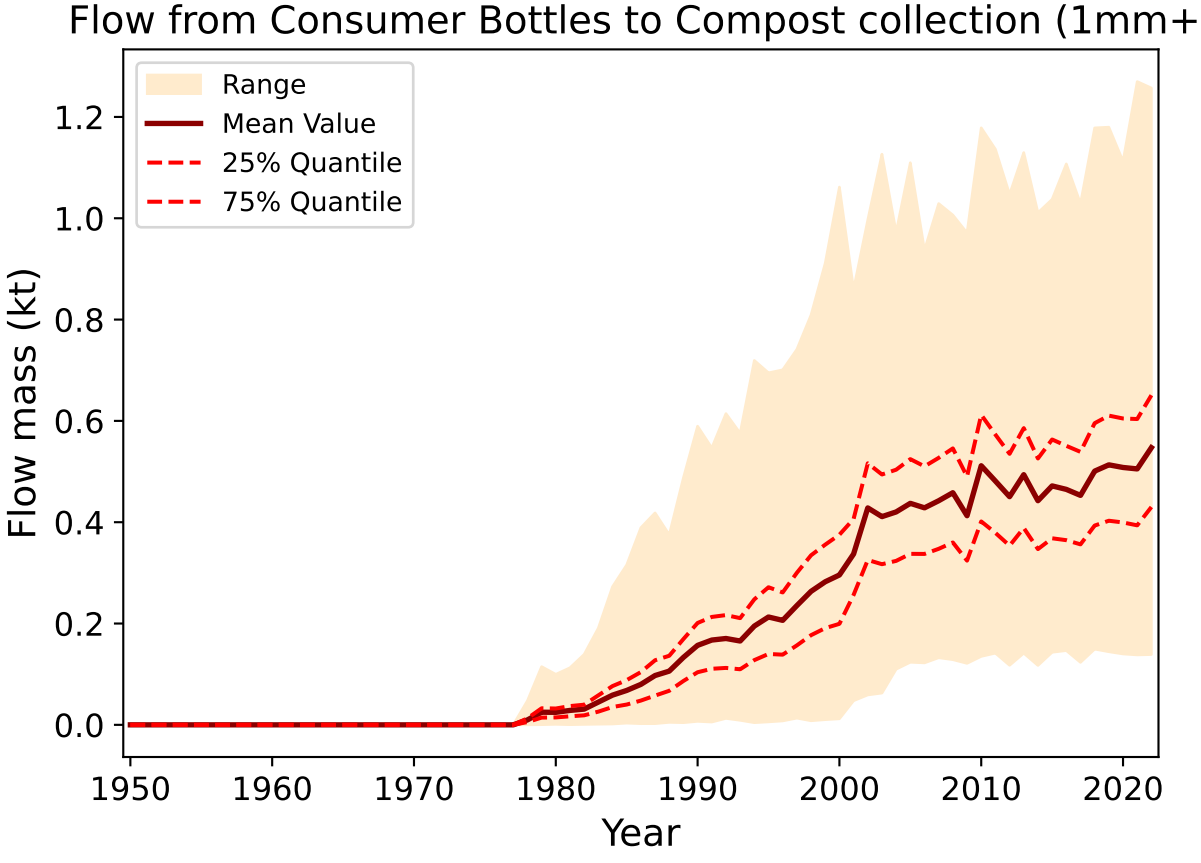

Flow from Consumer Bags to On-the-go consumption
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
1.0
0.8
0.6
0.4
0.2
0.0
1950
1960
1970
1980
1990
2000
2010
2020
Year

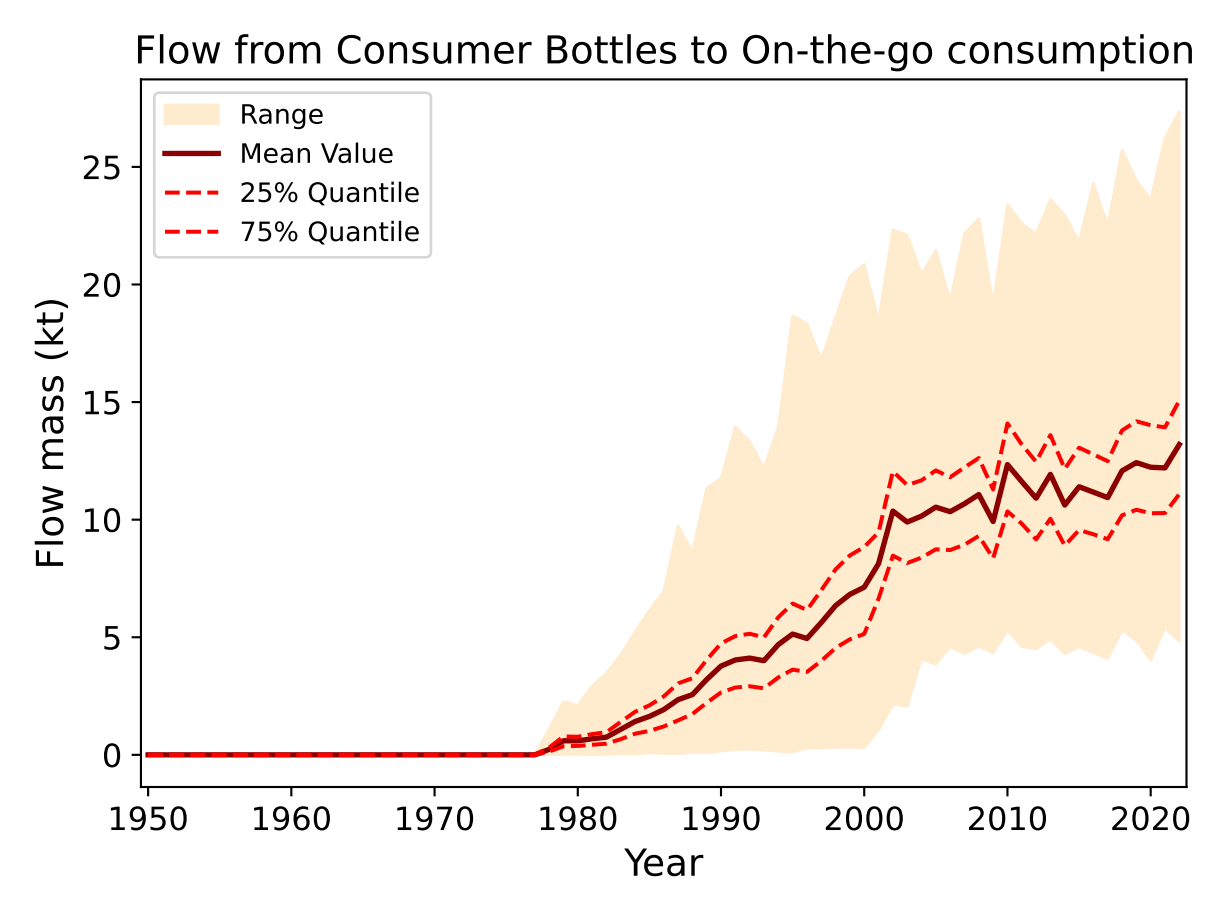

Flow from Consumer Bags to Dumping
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.00175
0.00150
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
1950
1960
1970
1980
1990
2000
2010
2020
Year

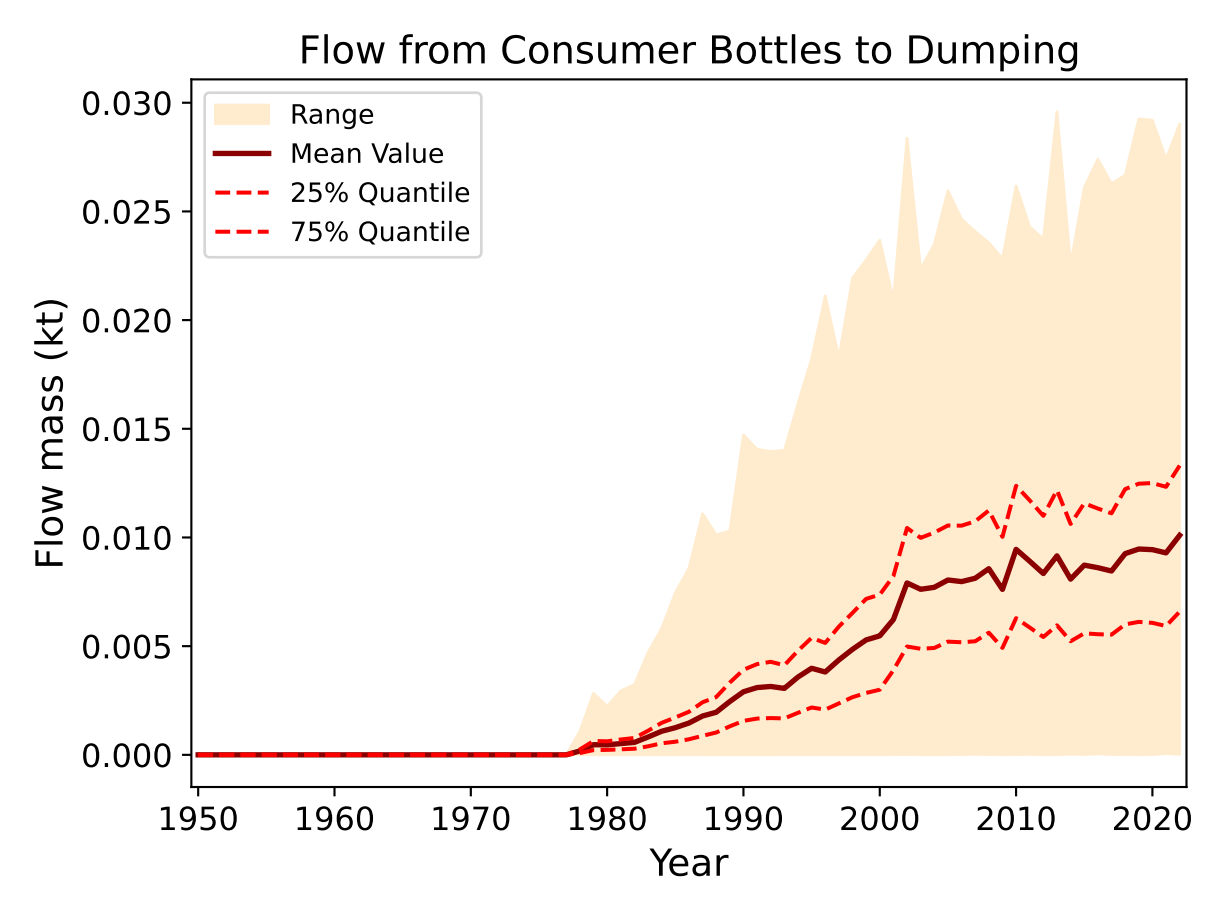

Flow from Consumer Bags to Packaging Collection
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0.000
1950
1960
1970
1980
1990
2000
2010
2020
Year

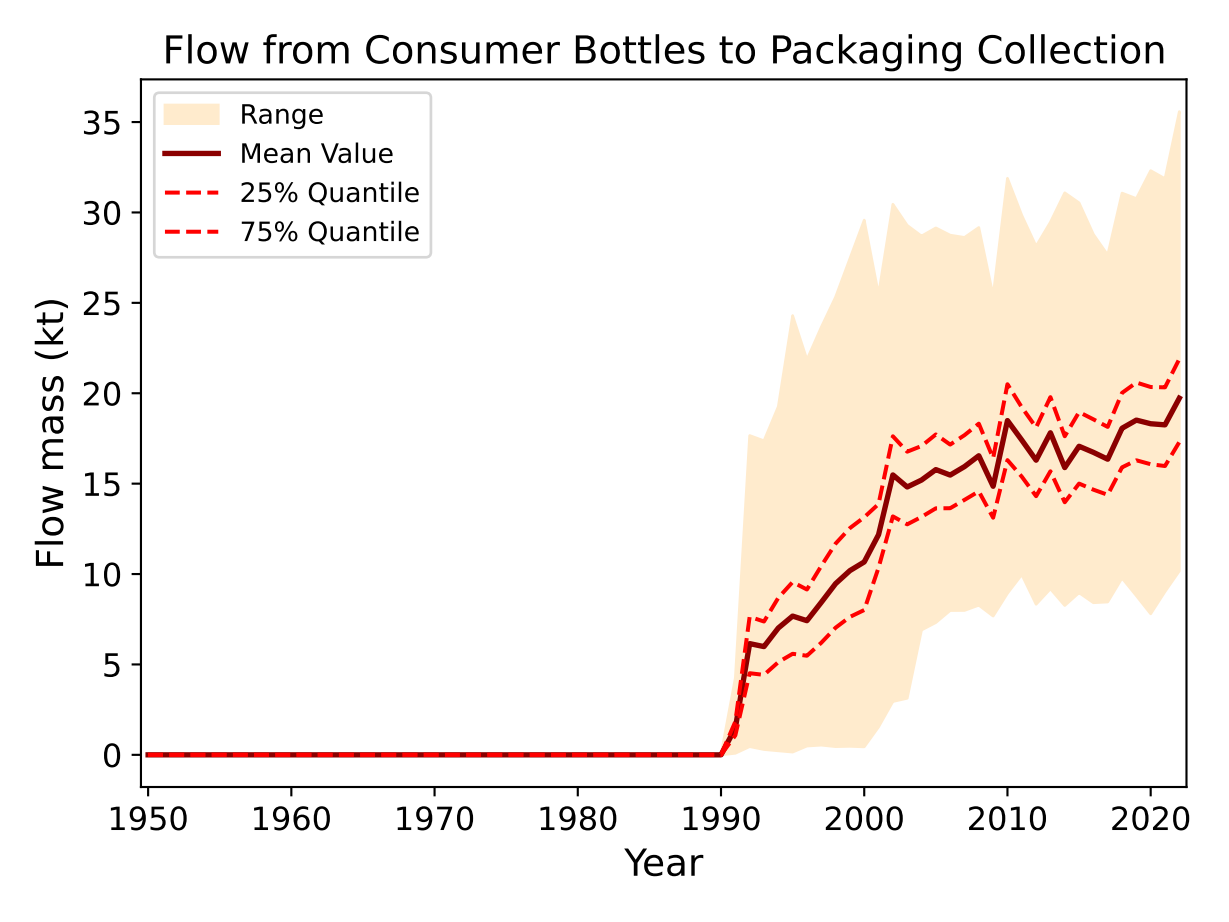

Flow from Consumer Bags to Mixed Waste Collection
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
1950
1960
1970
1980
1990
2000
2010
2020
Year

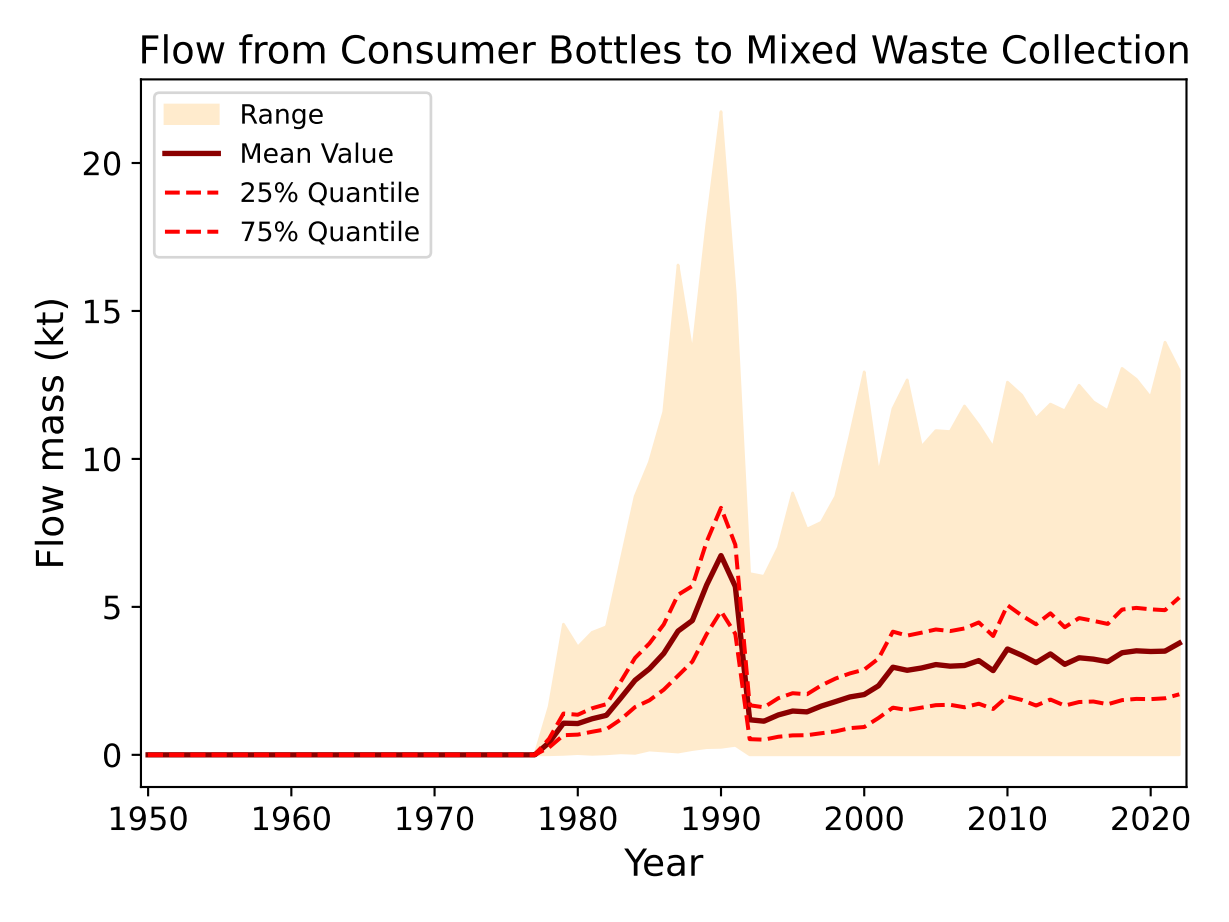

Flow from Consumer Bottles to Compost collection (1mm
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0020
0.0015
0.0010
0.0005
0.0000
1950
1960
1970
1980
1990
2000
2010
2020
Year

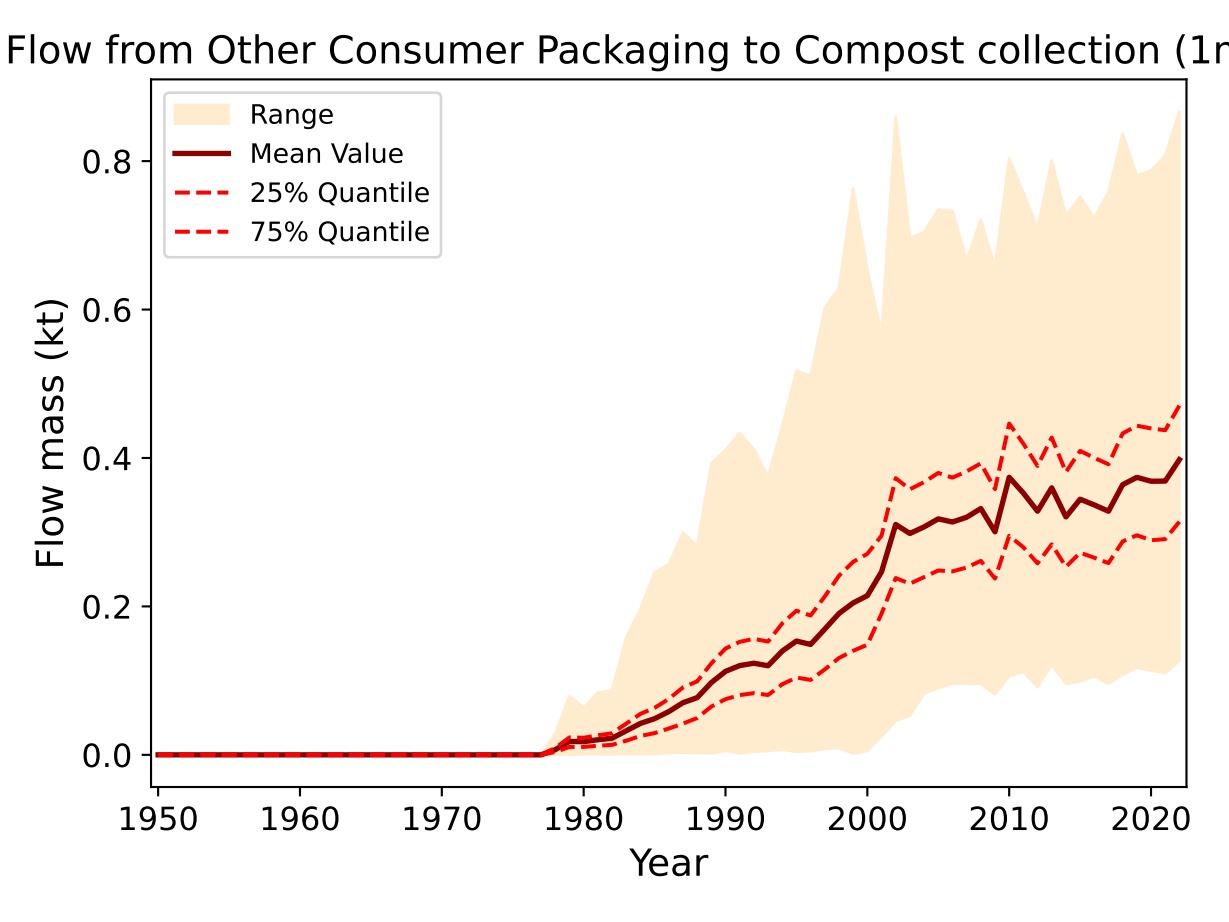

Flow from Consumer Bottles to Compost collection (1mm+
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1950
1960
1970
1980
1990
2000
2010
2020
Year

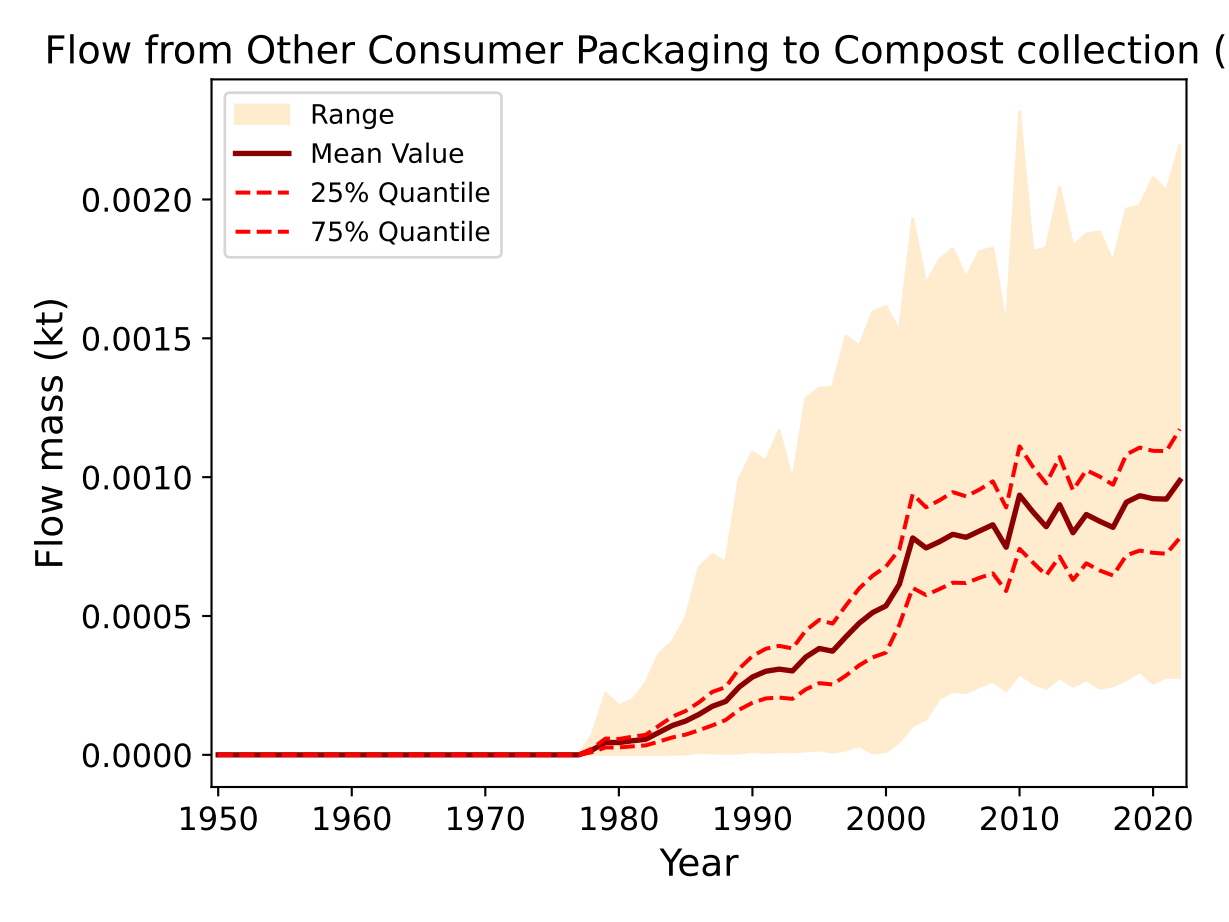

Flow from Consumer Bottles to On-the-go consumption
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
5
10
15
20
25
1950
1960
1970
1980
1990
2000
2010
2020
Year

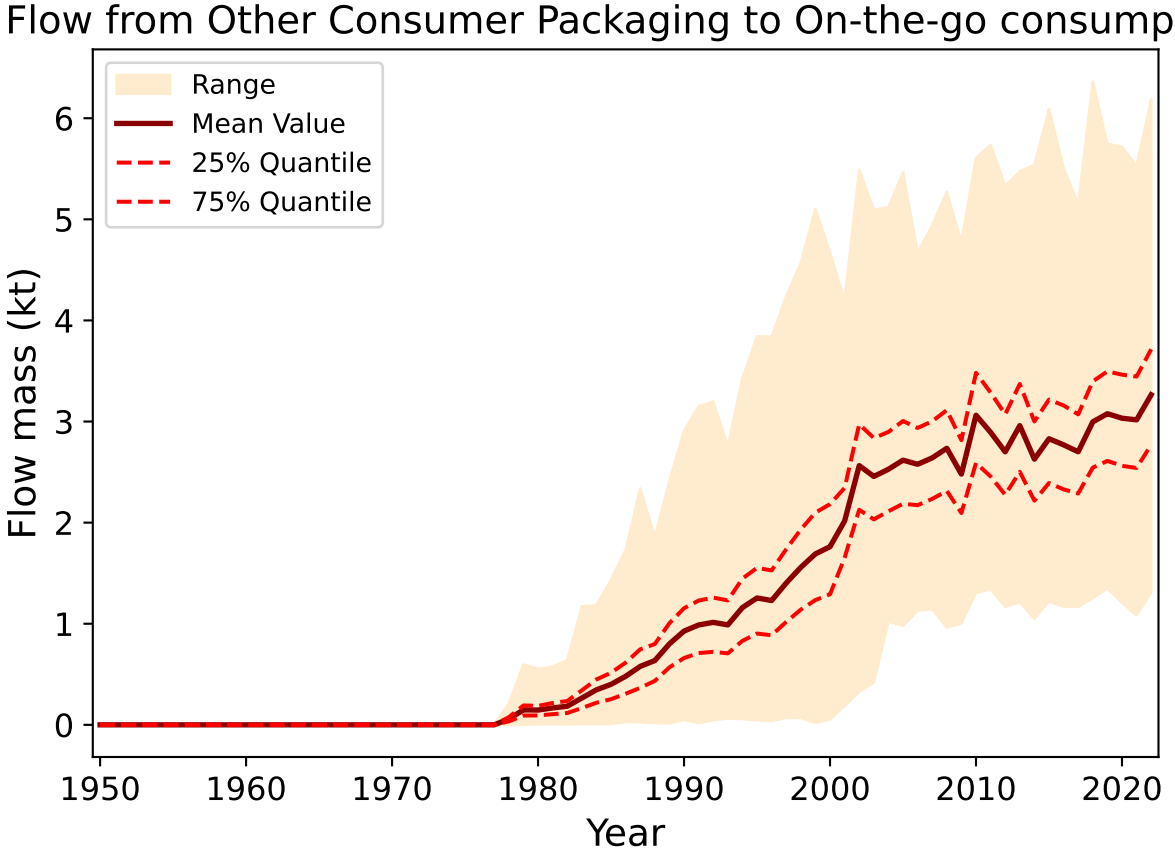

Flow from Consumer Bottles to Dumping
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.030
0.025
0.020
0.015
0.010
0.005
0.000
1950
1960
1970
1980
1990
2000
2010
2020
Year

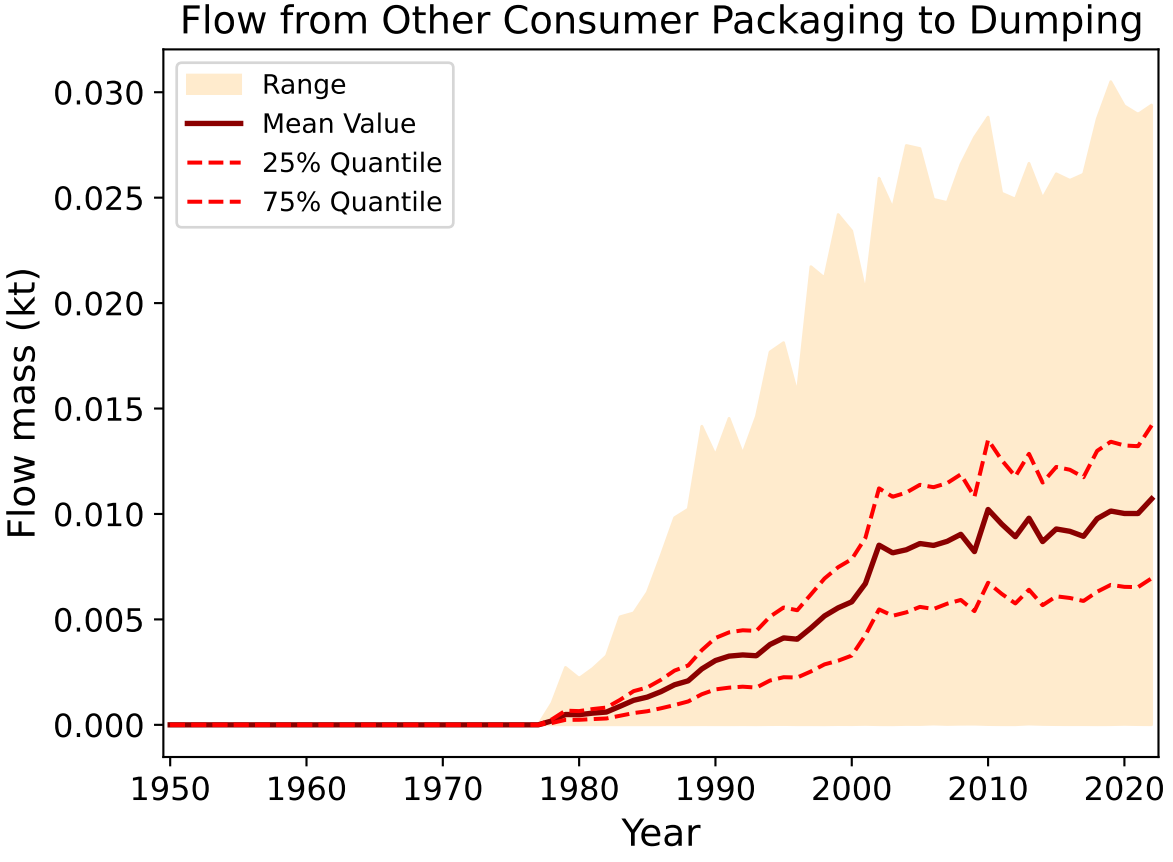

Flow from Consumer Bottles to Packaging Collection
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
5
10
15
20
25
30
35
1950
1960
1970
1980
1990
2000
2010
2020
Year

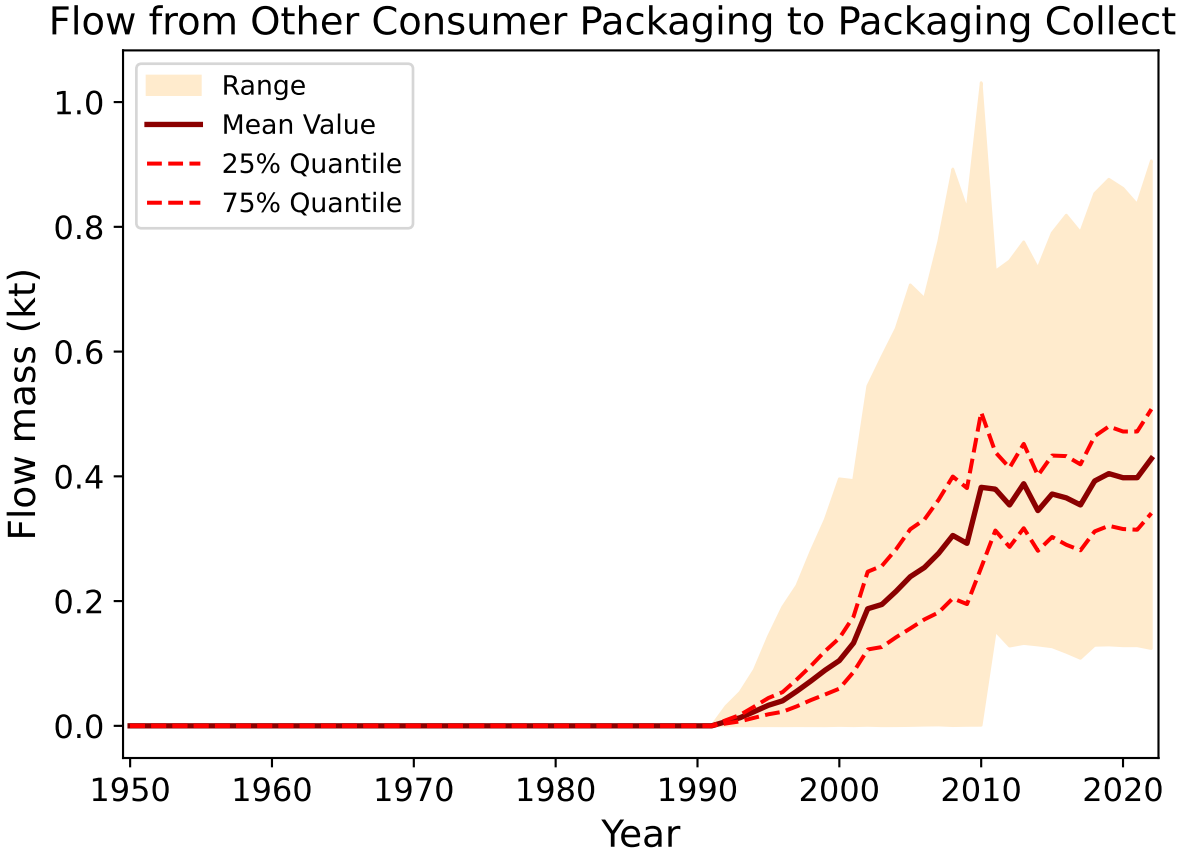

Flow from Consumer Bottles to Mixed Waste Collection
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
5
10
15
20
1950
1960
1970
1980
1990
2000
2010
2020
Year

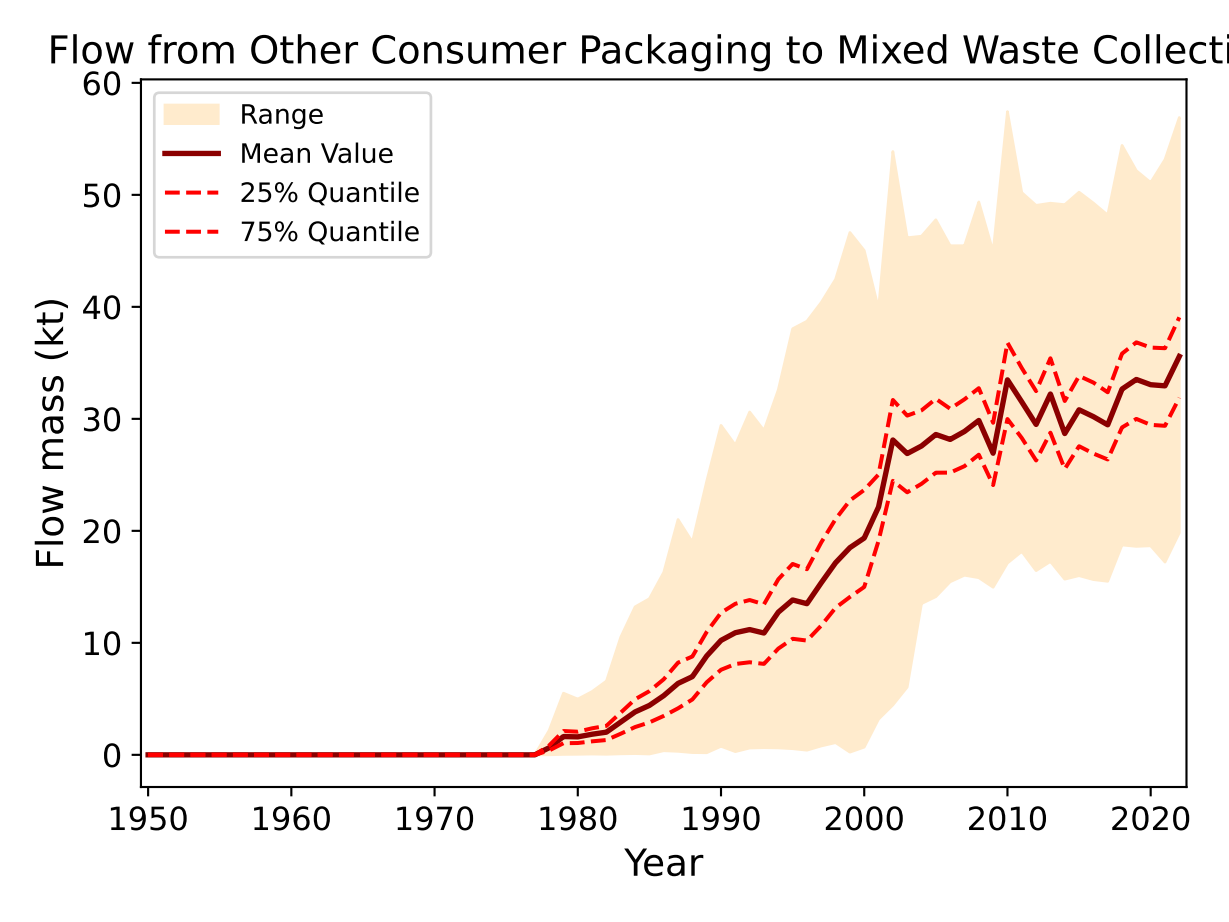

Flow from Other Consumer Packaging to Compost collection (1r
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0
0.2
0.4
0.6
0.8
1950
1960
1970
1980
1990
2000
2010
2020
Year

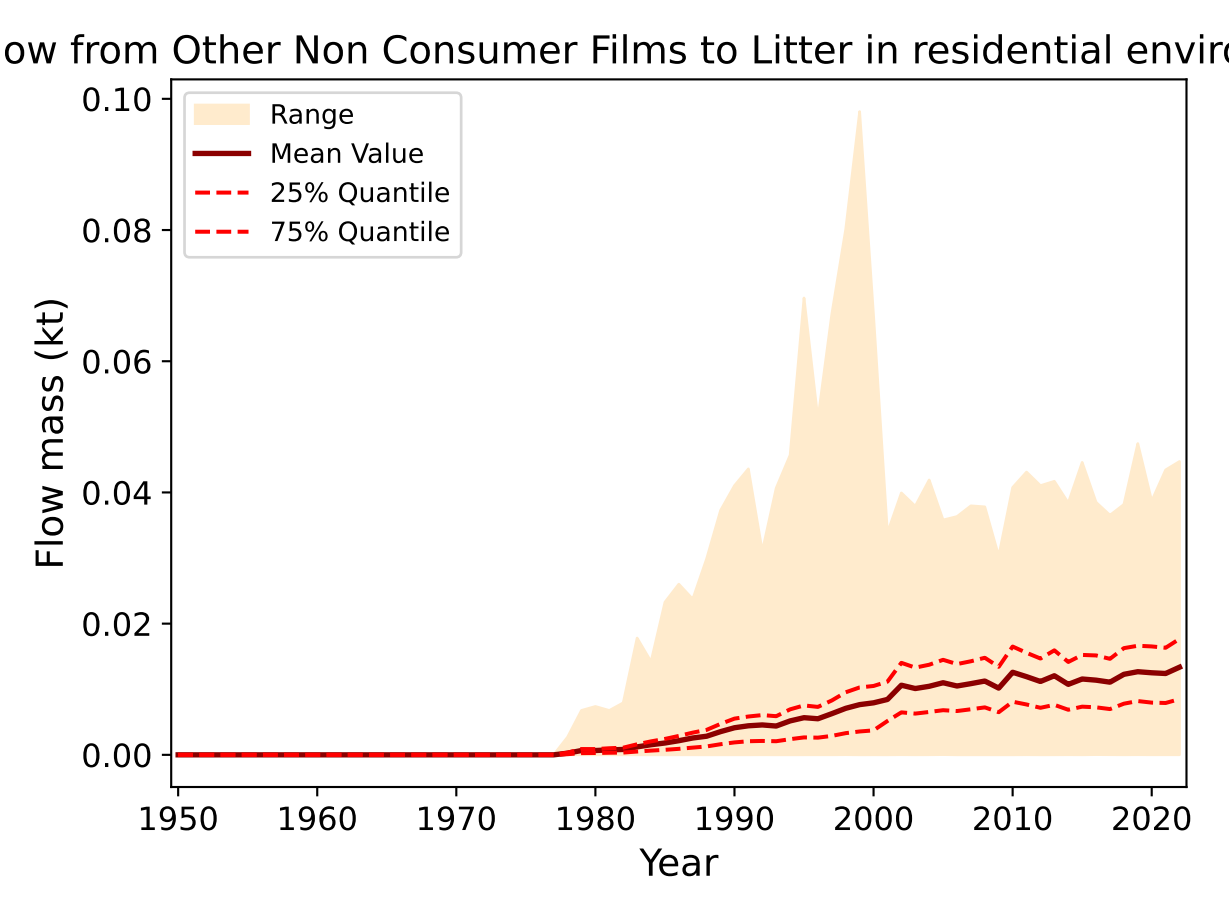

Flow from Other Consumer Packaging to Compost collection (
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0020
0.0015
0.0010
0.0005
0.0000
1950
1960
1970
1980
1990
2000
2010
2020
Year

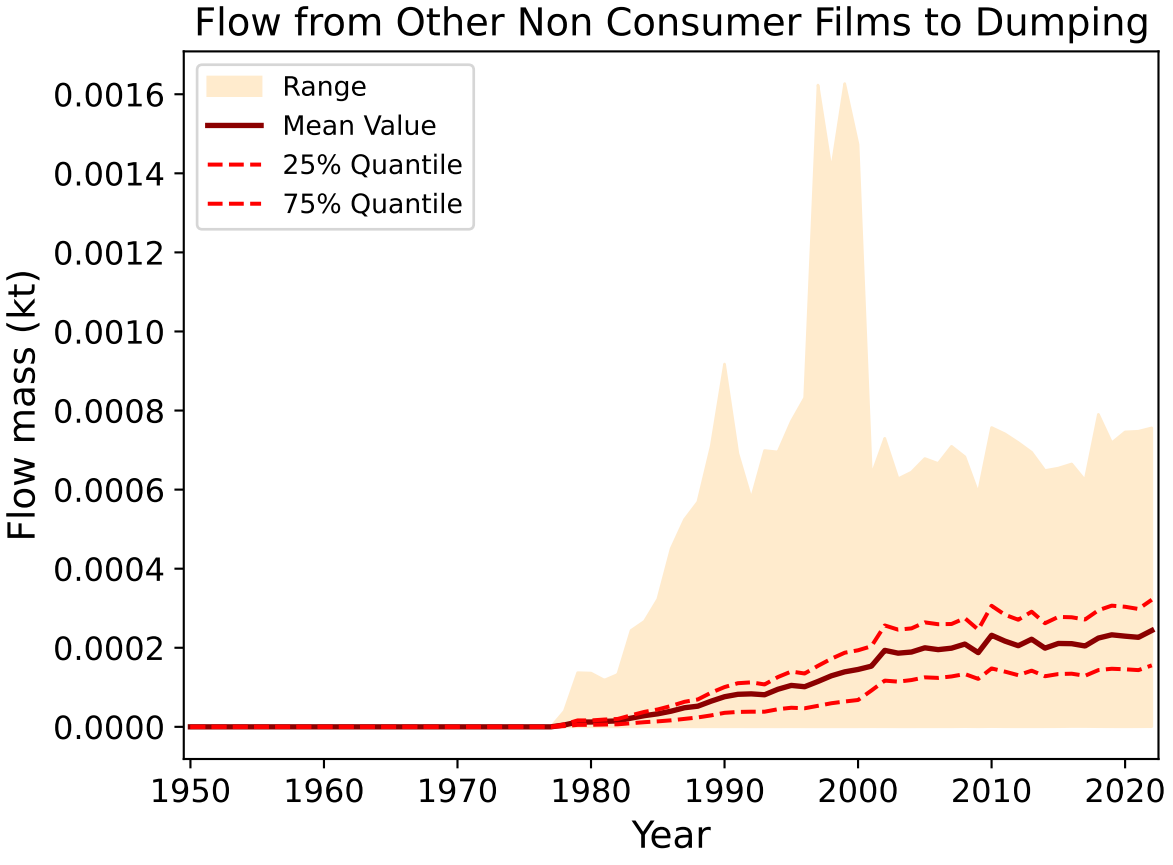

Flow from Other Consumer Packaging to On-the-go consumpti
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
1
2
3
4
5
6
1950
1960
1970
1980
1990
2000
2010
2020
Year

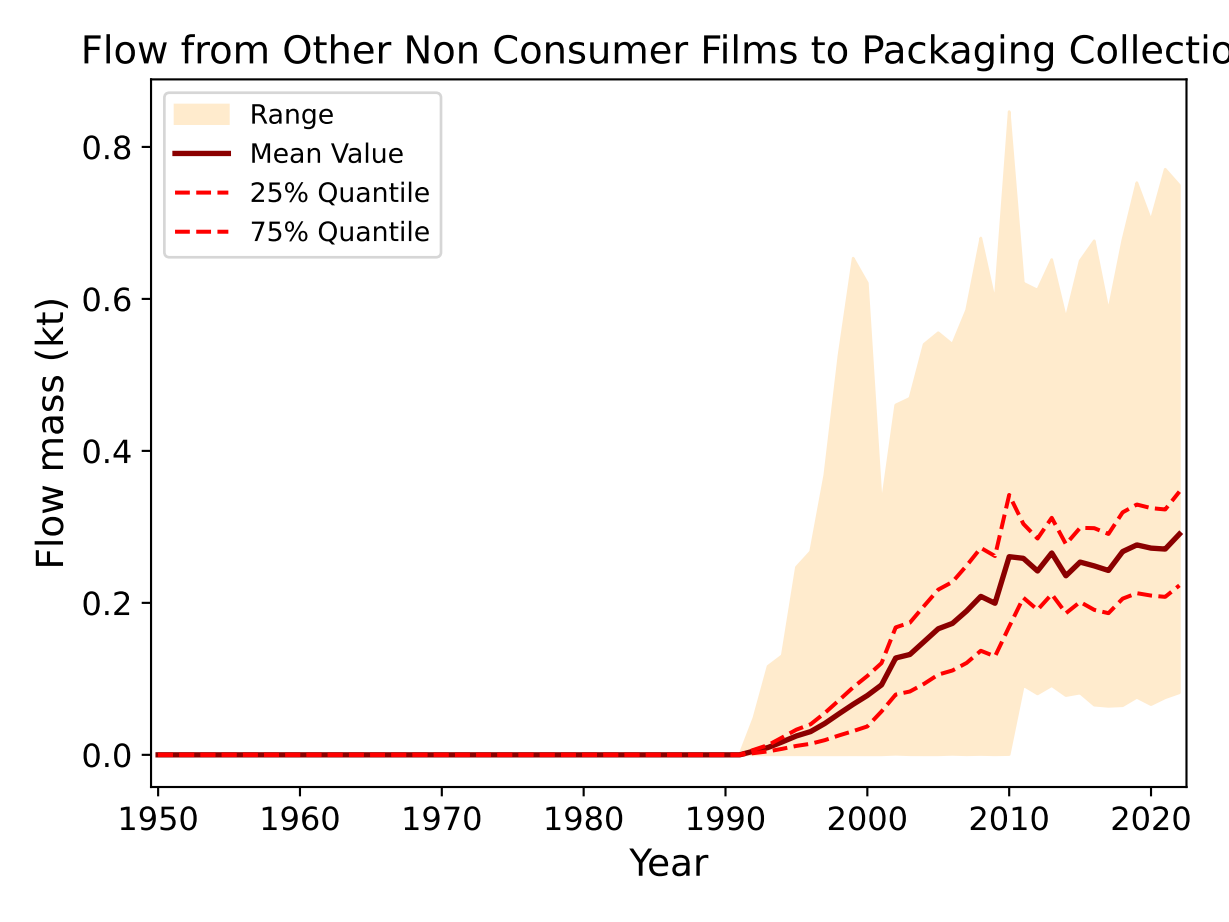

Flow from Other Consumer Packaging to Dumping
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.030
0.025
0.020
0.015
0.010
0.005
0.000
1950
1960
1970
1980
1990
2000
2010
2020
Year

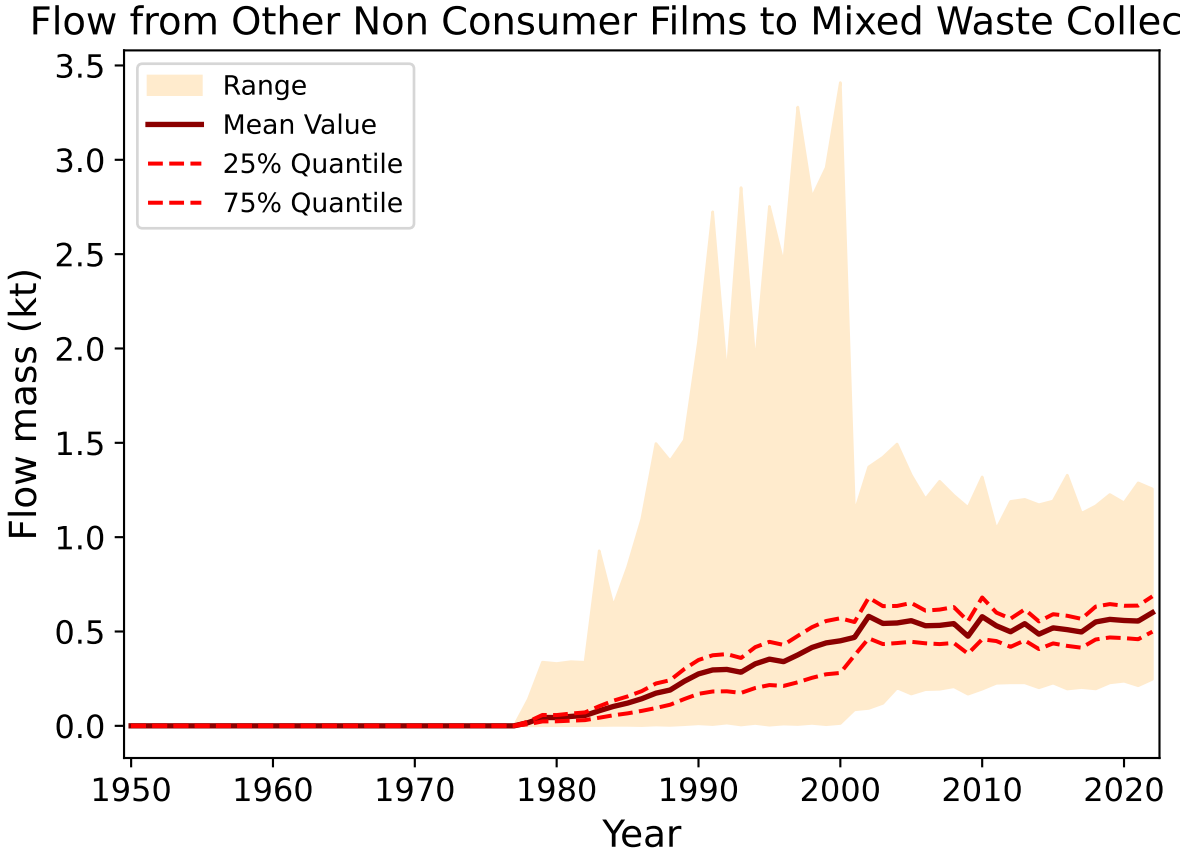

Flow from Other Consumer Packaging to Packaging Collectio
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
1.0
0.8
0.6
0.4
0.2
0.0
1950
1960
1970
1980
1990
2000
2010
2020
Year

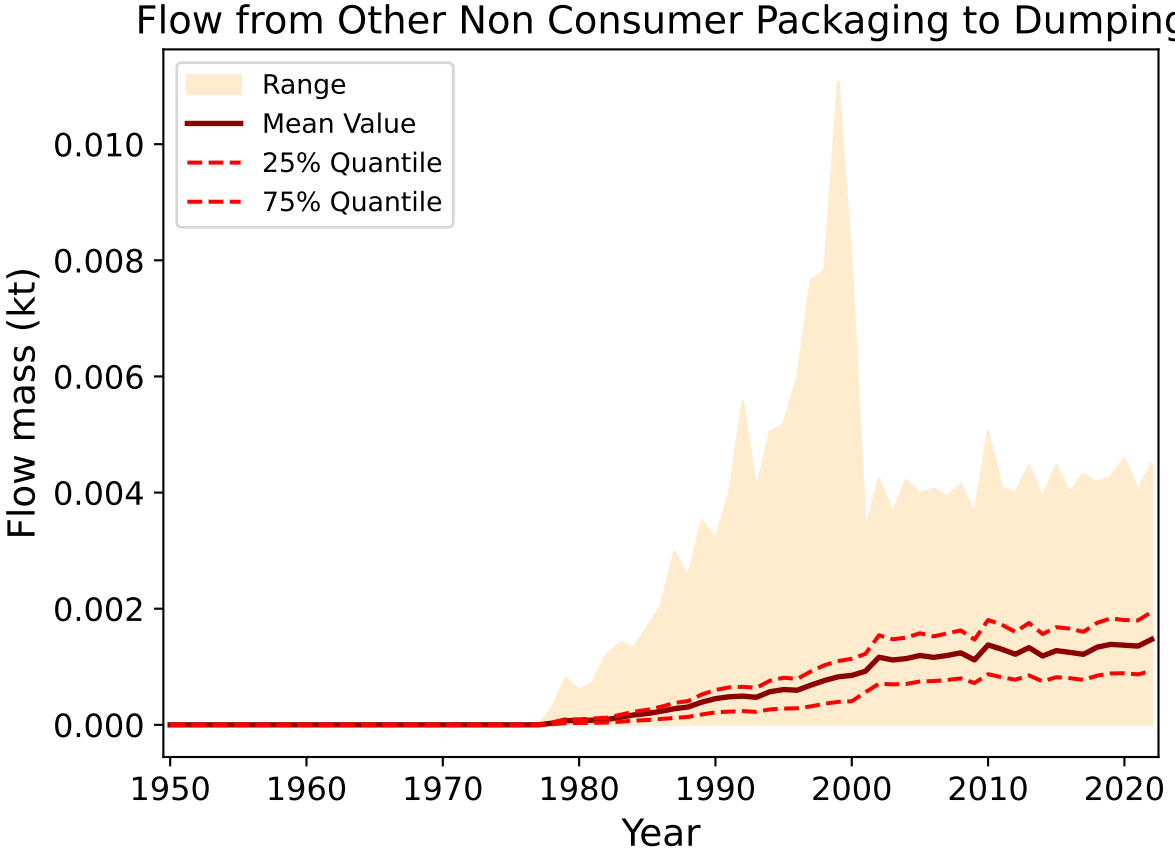

Flow from Other Consumer Packaging to Mixed Waste Collecti
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
Year
0
10
20
30
40
50
60
1950
1960
1970
1980
1990
2000
2010
2020

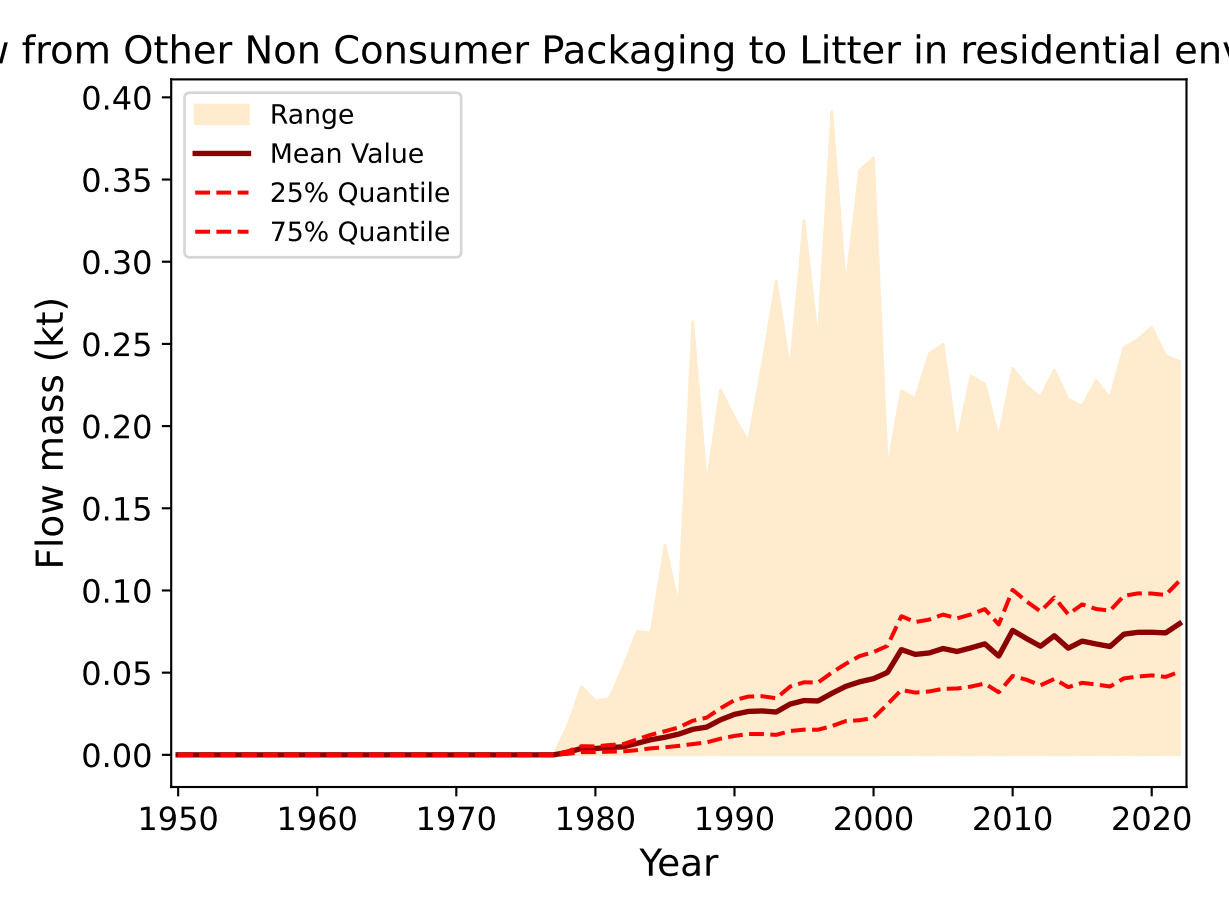

ow from Other Non Consumer Films to Litter in residential enviro
Range
Mean Value
25% Quantile
75% Quantile
0.10
0.08
0.06
0.04
0.02
0.00
Flow mass (kt)
1950
1960
1970
1980
1990
2000
2010
2020
Year

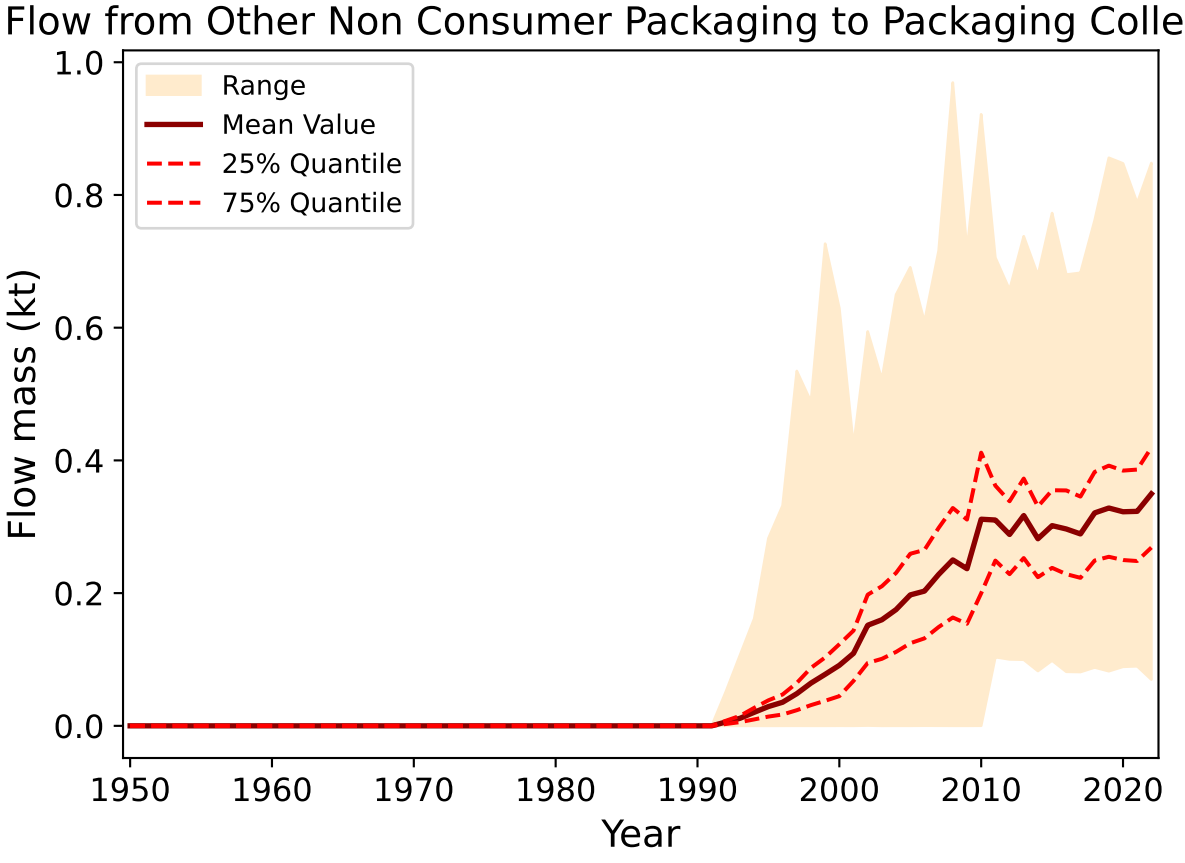

Flow from Other Non Consumer Films to Dumping
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0016
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
1950
1960
1970
1980
1990
2000
2010
2020
Year

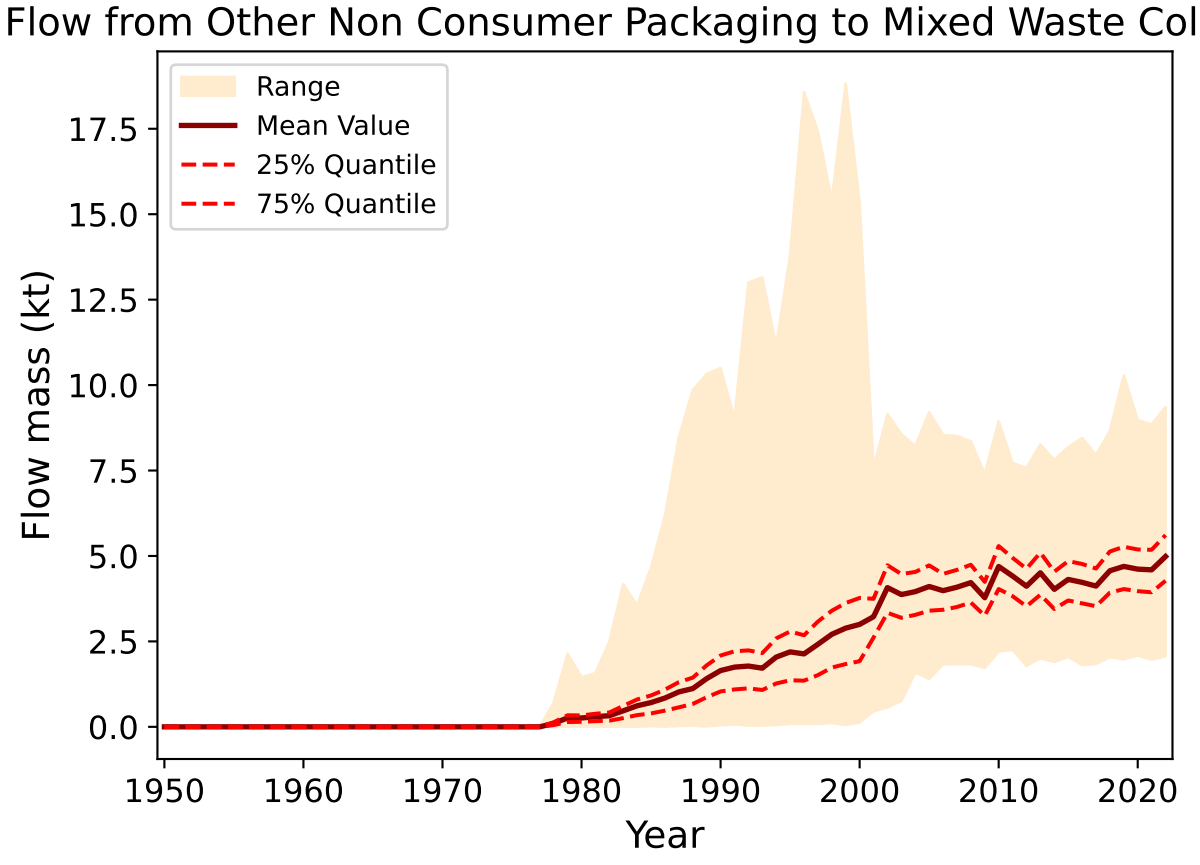

Flow from Other Non Consumer Films to Packaging Collectio
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0
0.2
0.4
0.6
0.8
1950
1960
1970
1980
1990
2000
2010
2020
Year

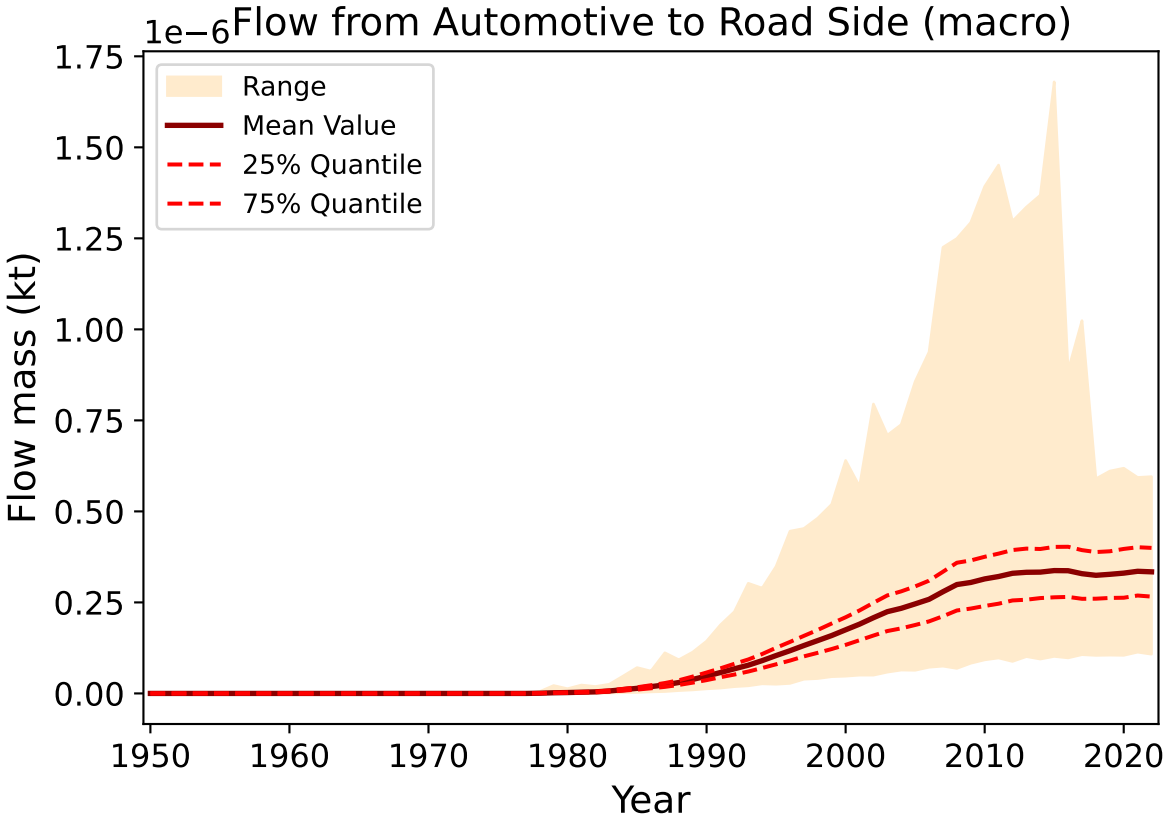

Flow from Other Non Consumer Films to Mixed Waste Collecti
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
1950
1960
1970
1980
1990
2000
2010
2020
Year

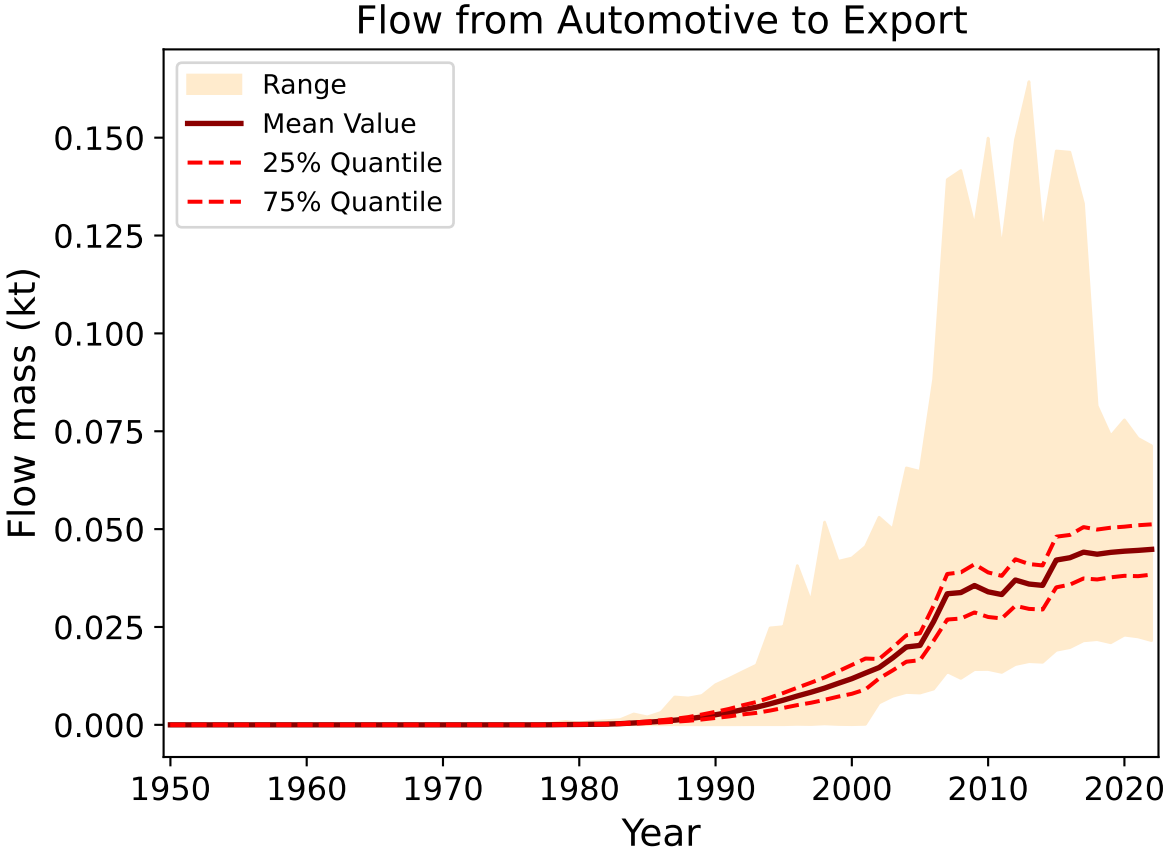

Flow from Other Non Consumer Packaging to Dumping
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.010
0.008
0.006
0.004
0.002
0.000
1950
1960
1970
1980
1990
2000
2010
2020
Year

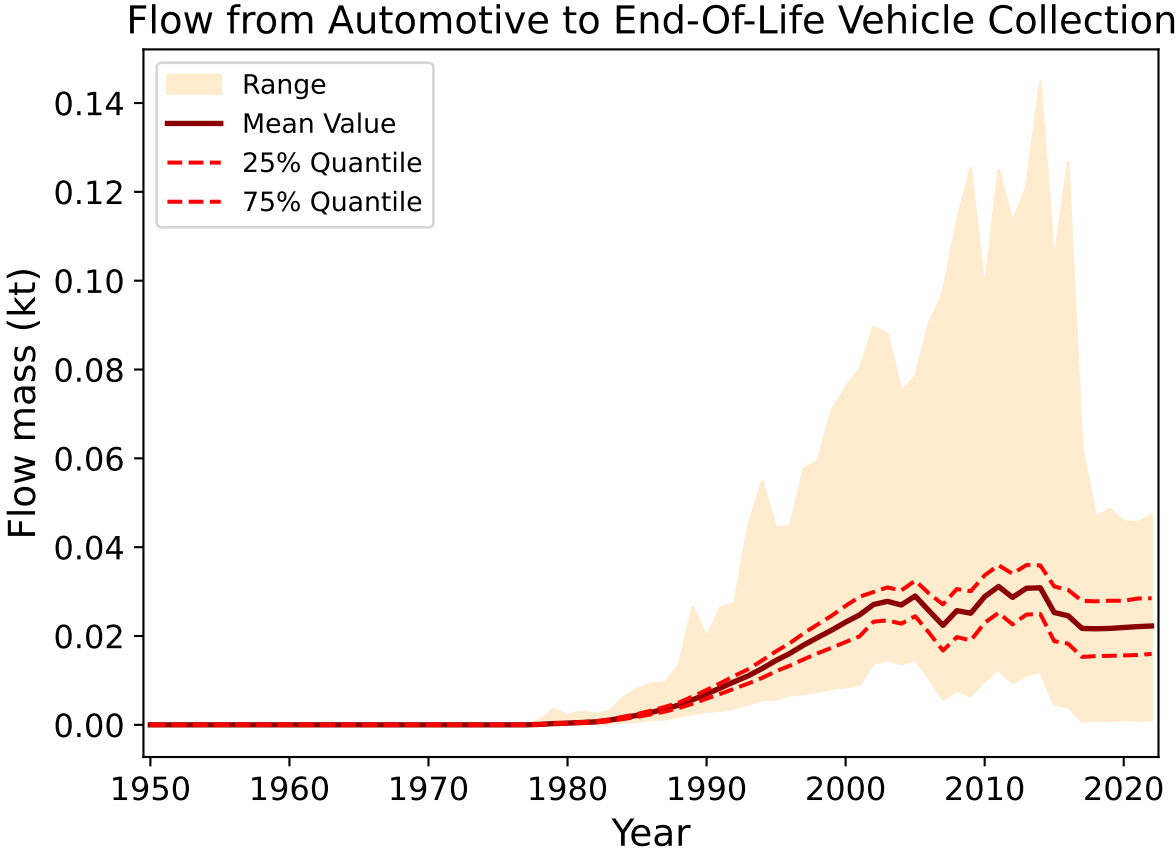

w from Other Non Consumer Packaging to Litter in residential env
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.40
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
1950
1960
1970
1980
1990
2000
2010
2020
Year

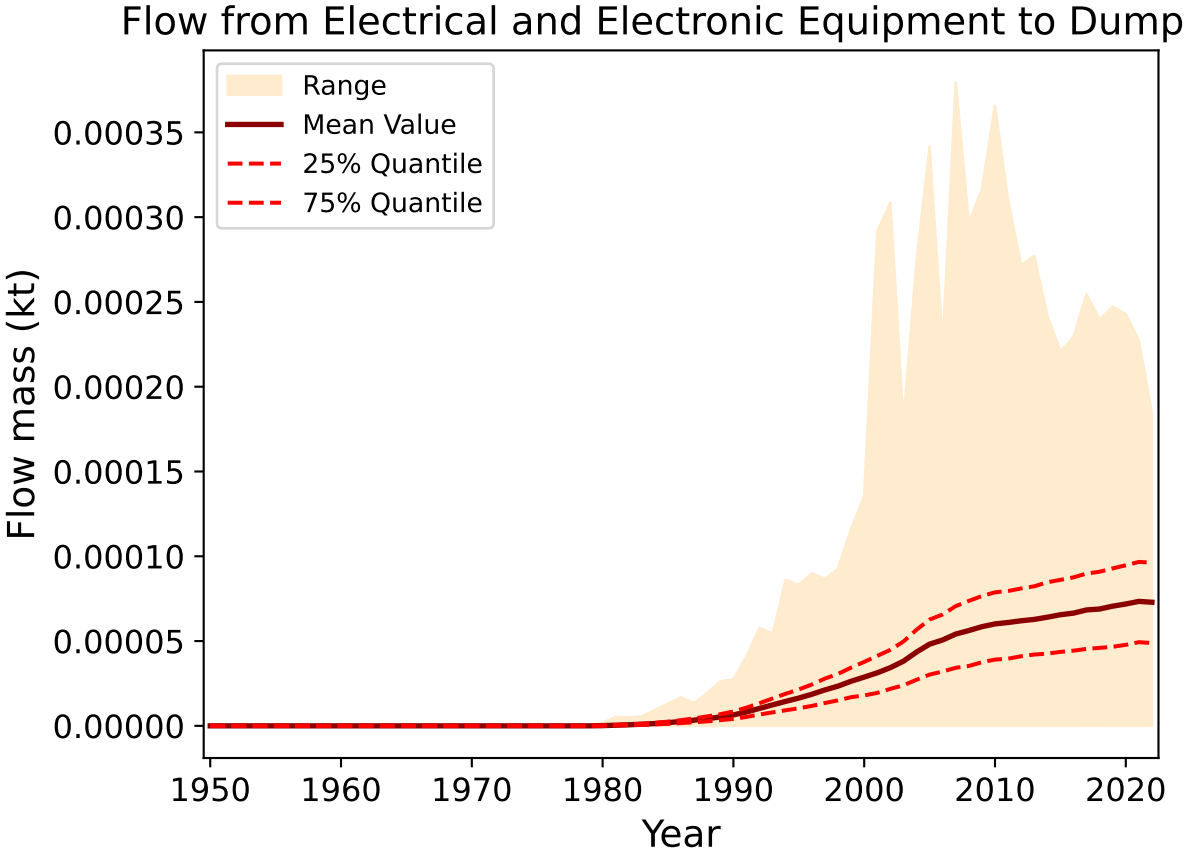

Flow from Other Non Consumer Packaging to Packaging Collec
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
1.0
0.8
0.6
0.4
0.2
0.0
1950
1960
1970
1980
1990
2000
2010
2020
Year

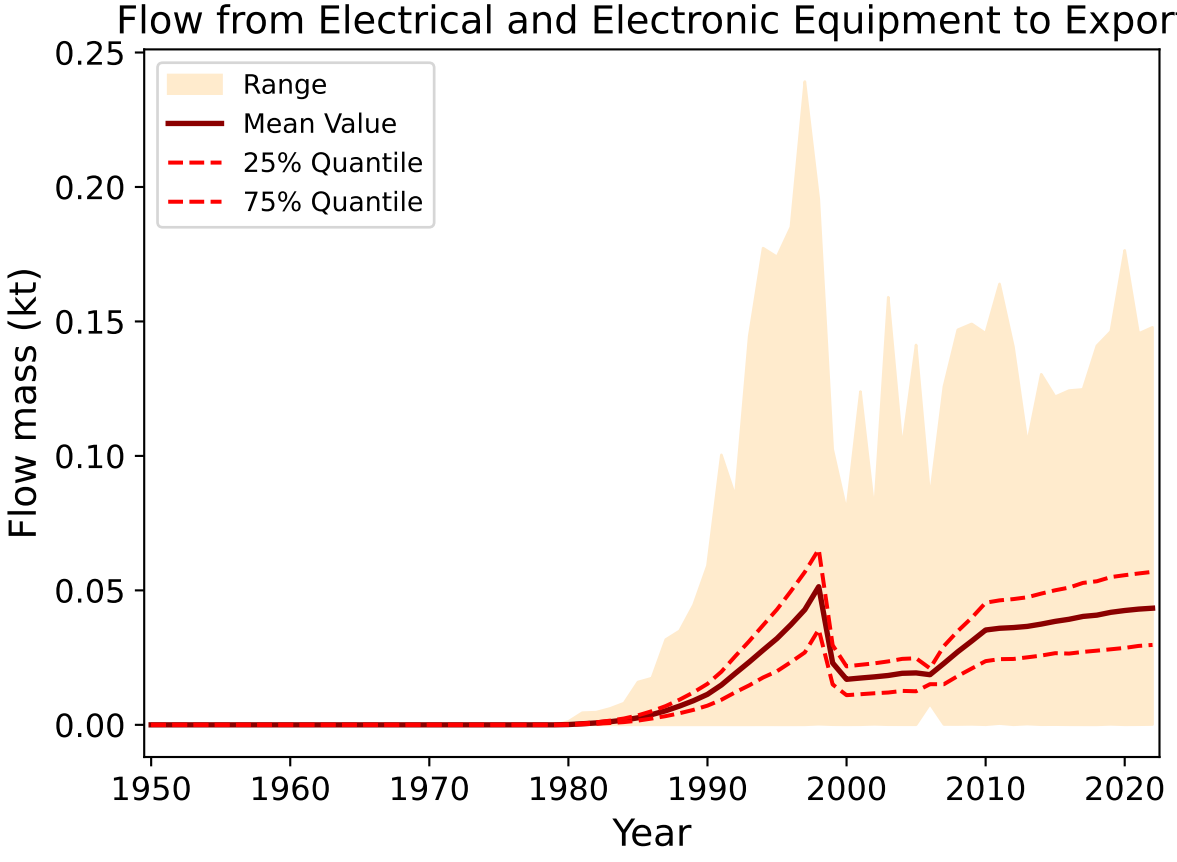

Flow from Other Non Consumer Packaging to Mixed Waste Coll
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0.0
1950
1960
1970
1980
1990
2000
2010
2020
Year

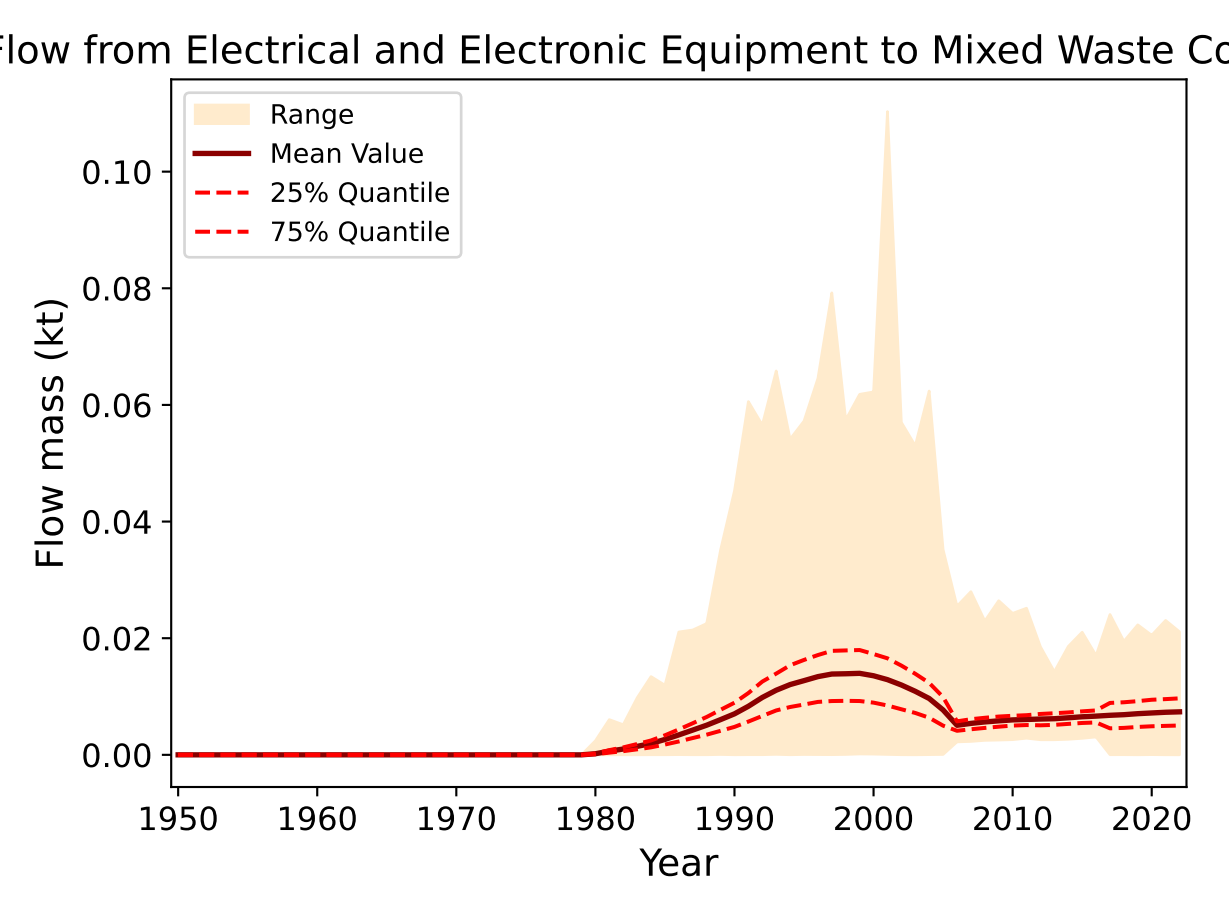

Flow from Automotive to Road Side (macro)
1e−6
1.75
1.50
1.25
1.00
0.75
0.50
0.25
0.00
Flow mass (kt)
Range
Mean Value
25% Quantile
75% Quantile
1950
1960
1970
1980
1990
2000
2010
2020
Year

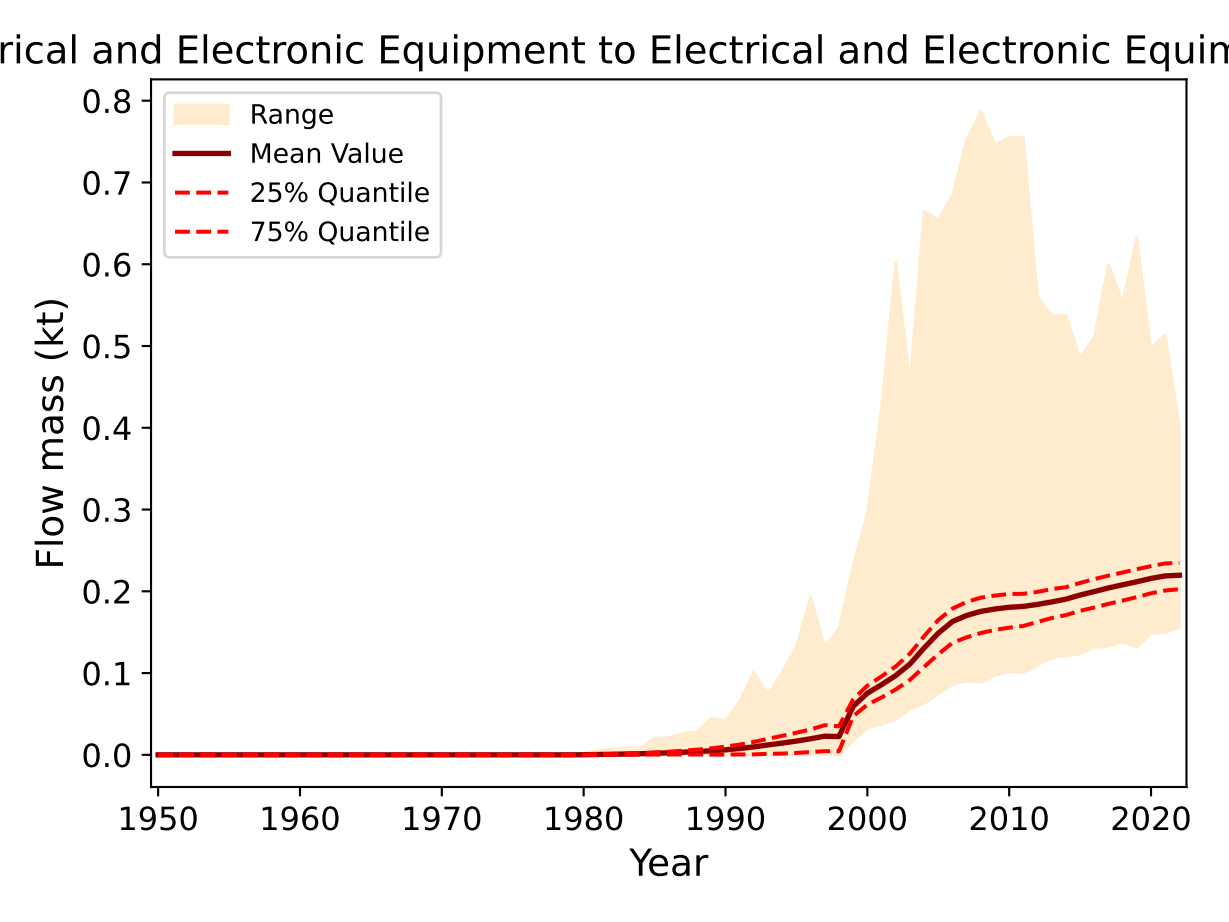

Flow from Automotive to Export
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.150
0.125
0.100
0.075
0.050
0.025
0.000
1950
1960
1970
1980
1990
2000
2010
2020
Year

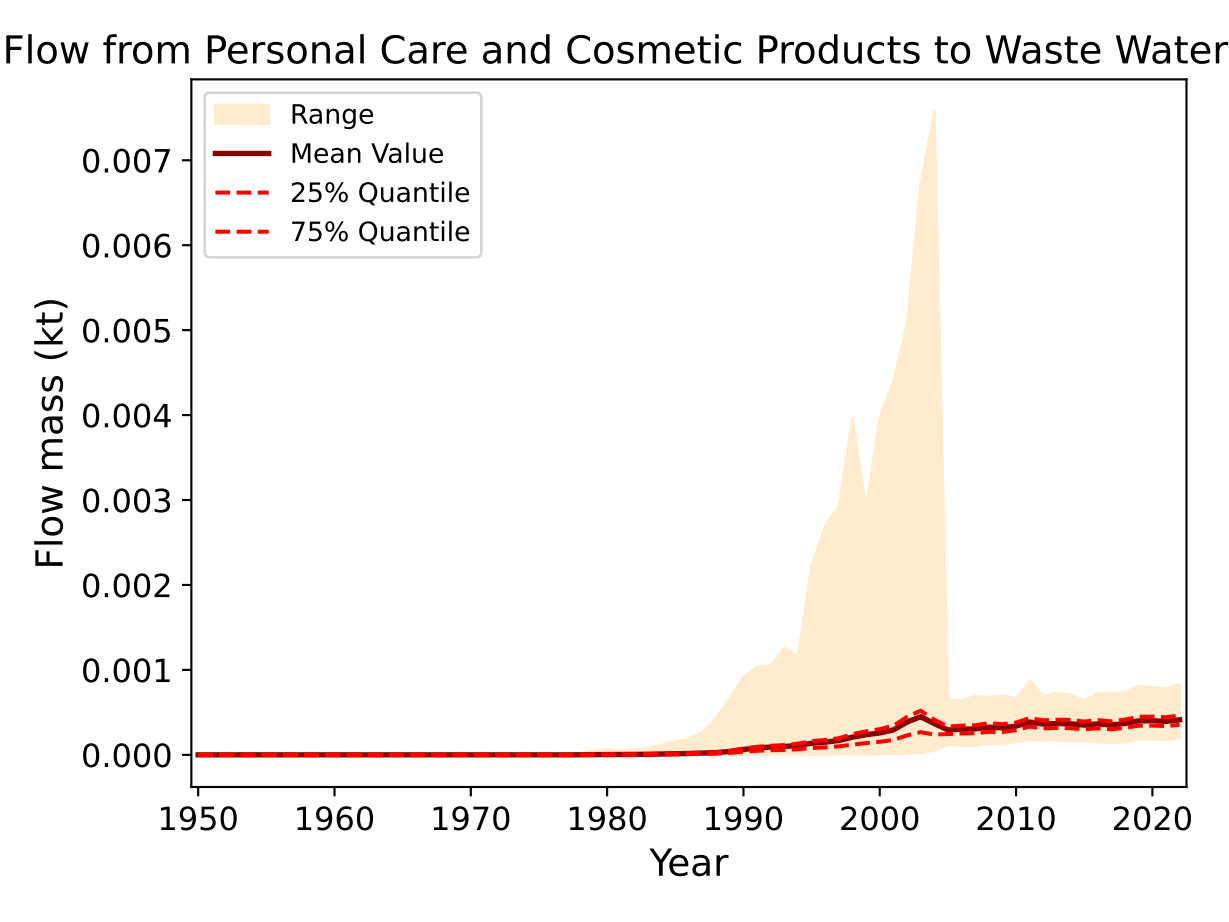

Flow from Automotive to End-Of-Life Vehicle Collection
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
1950
1960
1970
1980
1990
2000
2010
2020
Year

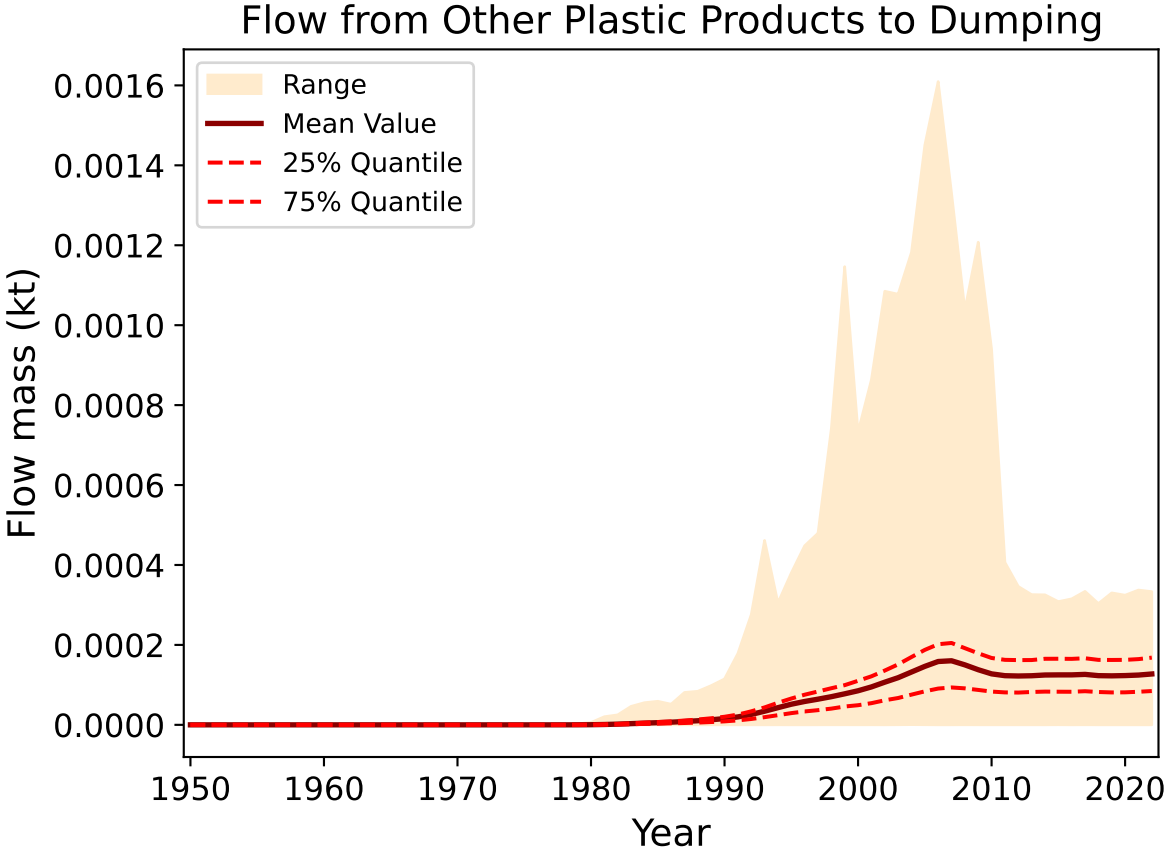

Flow from Electrical and Electronic Equipment to Dumpi
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.00035
0.00030
0.00025
0.00020
0.00015
0.00010
0.00005
0.00000
1950
1960
1970
1980
1990
2000
2010
2020
Year

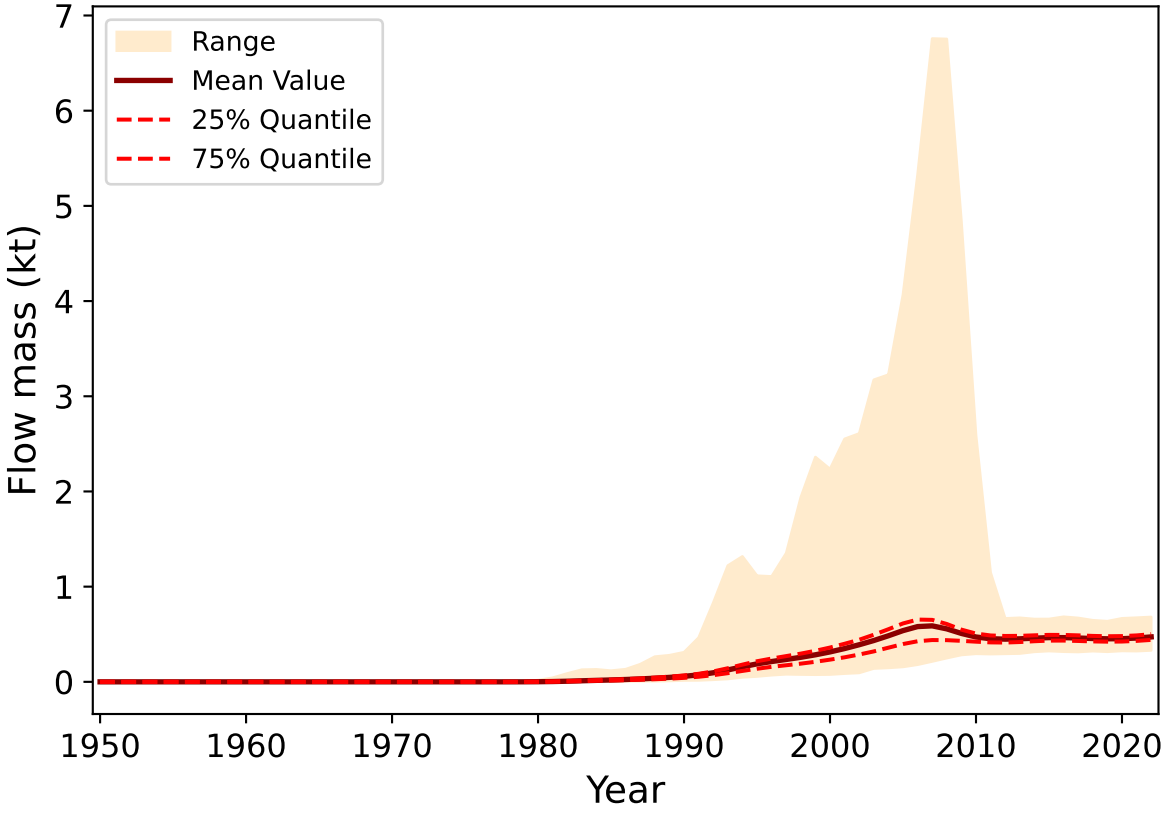

Flow from Electrical and Electronic Equipment to Export
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.25
0.20
0.15
0.10
0.05
0.00
1950
1960
1970
1980
1990
2000
2010
2020
Year

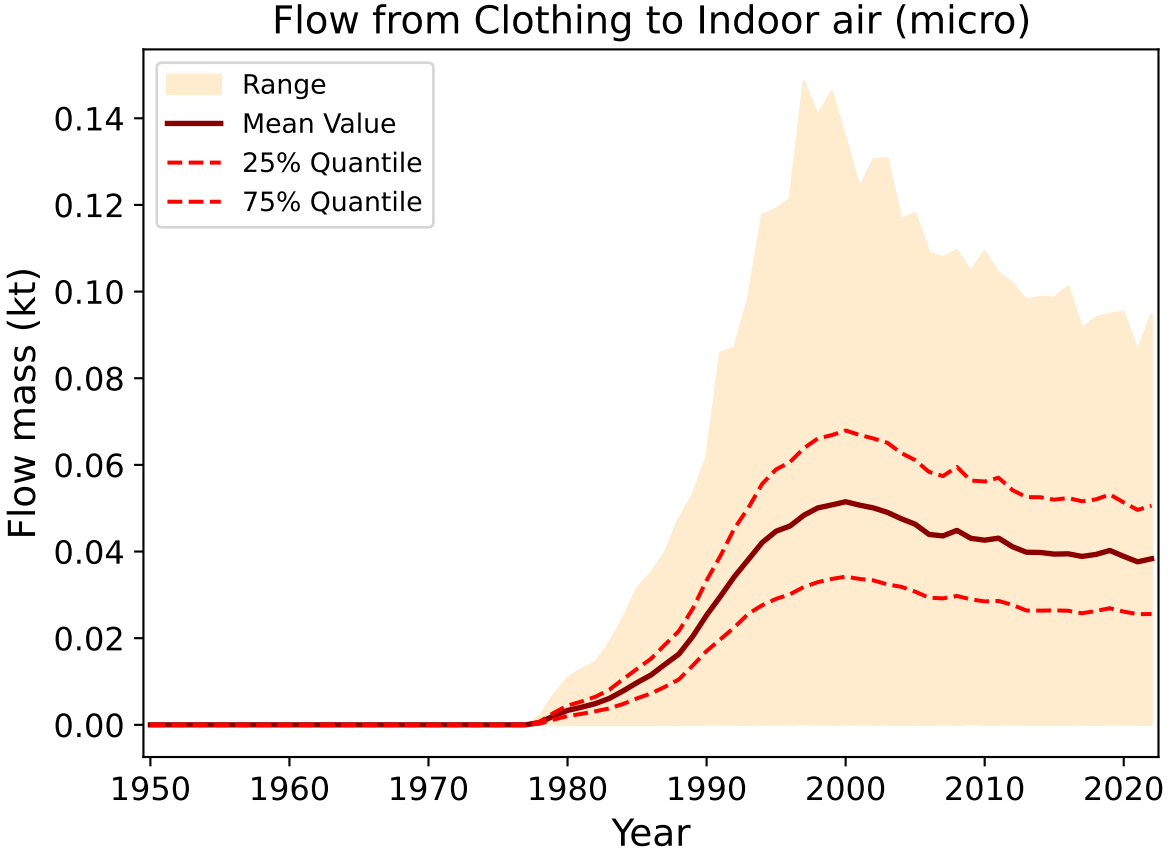

Flow from Electrical and Electronic Equipment to Mixed Waste Co
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.10
0.08
0.06
0.04
0.02
0.00
1950
1960
1970
1980
1990
2000
2010
2020
Year

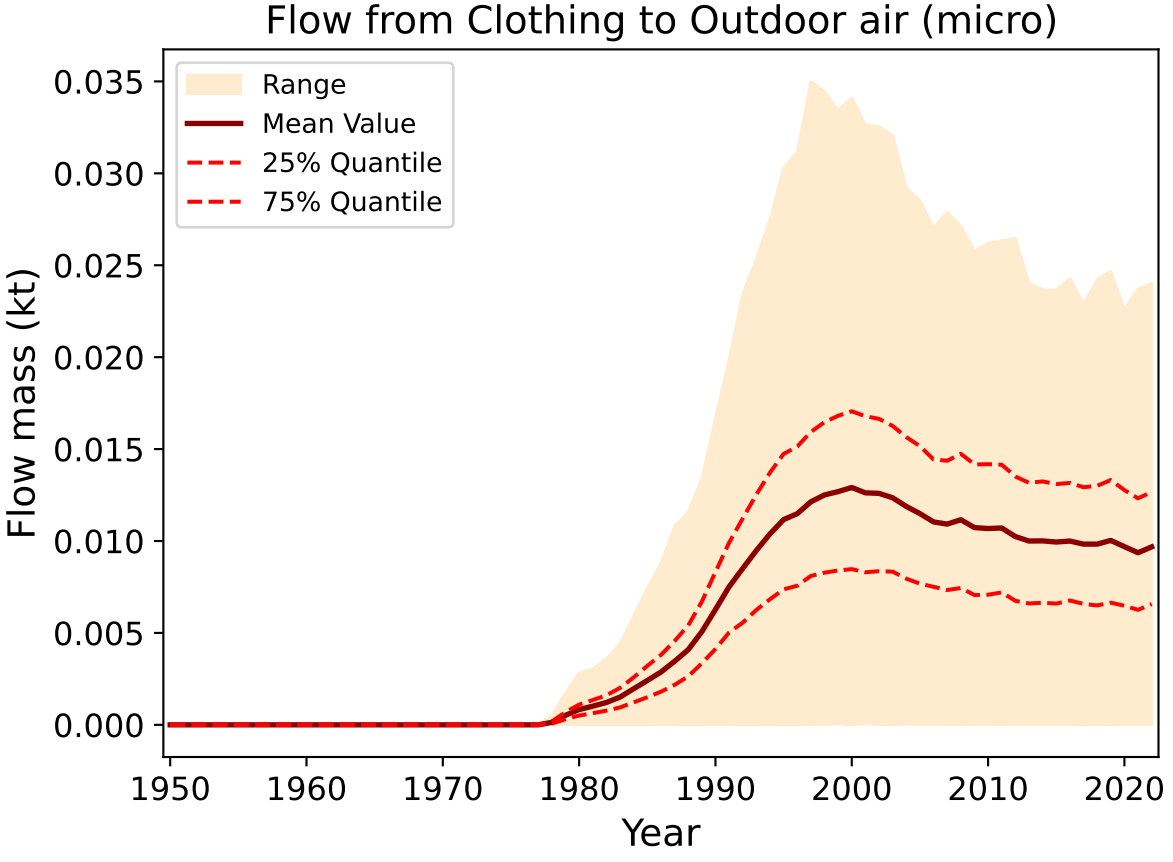

rical and Electronic Equipment to Electrical and Electronic Equip
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
1950
1960
1970
1980
1990
2000
2010
2020
Year

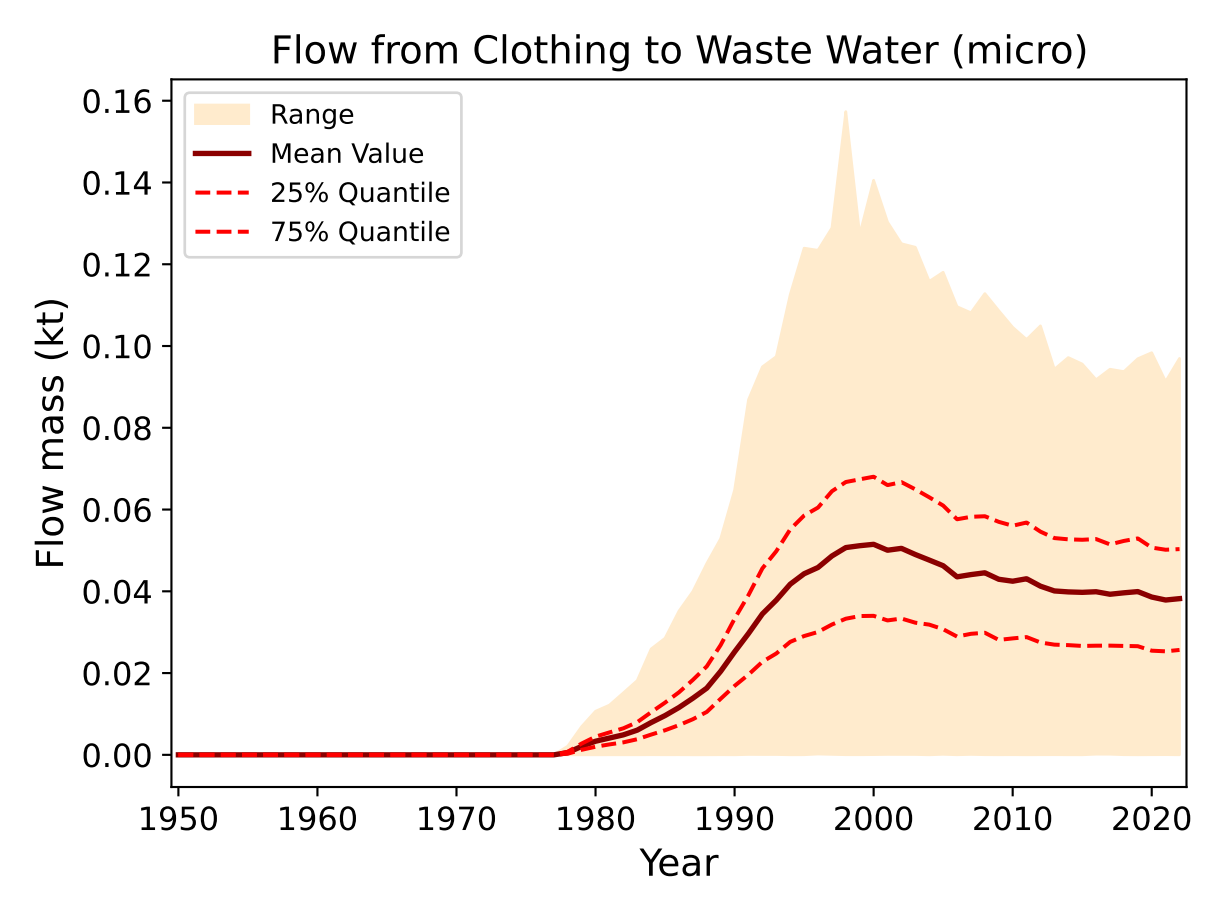

Flow from Personal Care and Cosmetic Products to Waste Water
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.000
0.001
0.002
0.003
0.004
0.005
0.006
0.007
1950
1960
1970
1980
1990
2000
2010
2020
Year

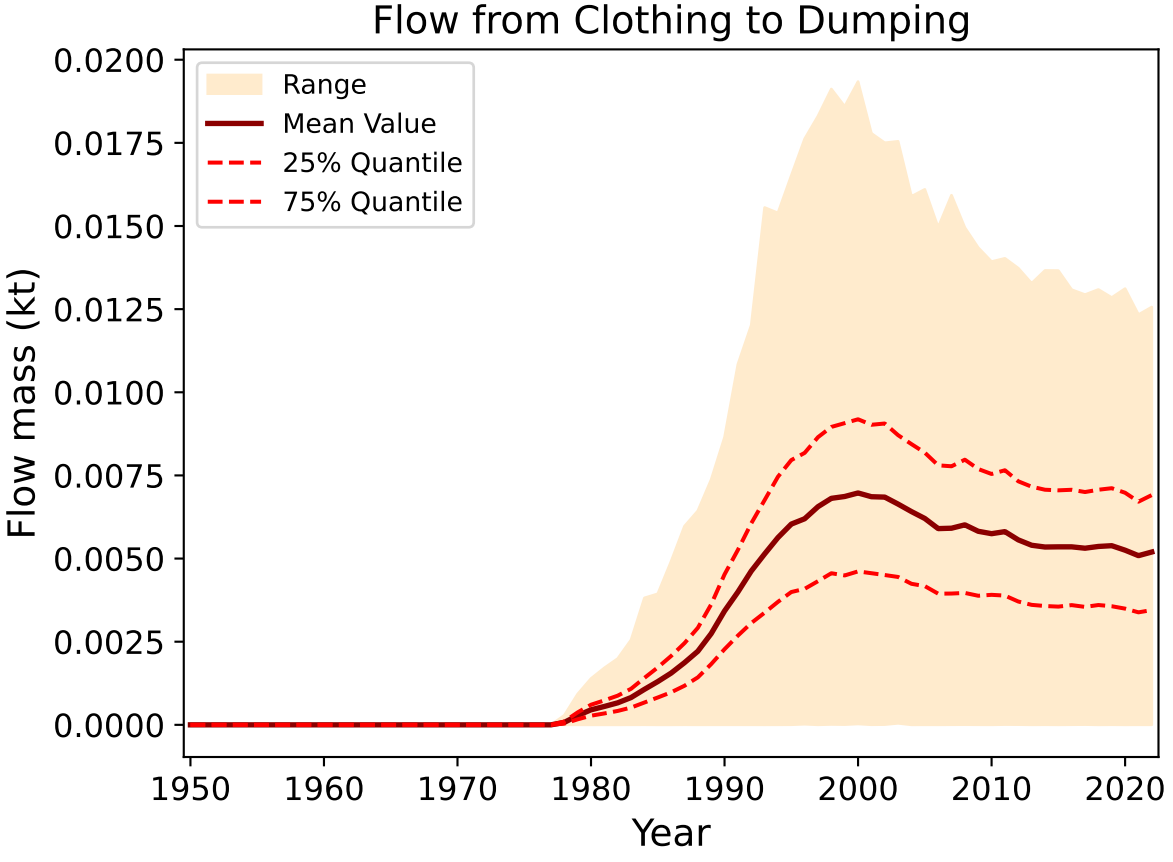

Flow from Other Plastic Products to Dumping
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0016
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
1950
1960
1970
1980
1990
2000
2010
2020
Year

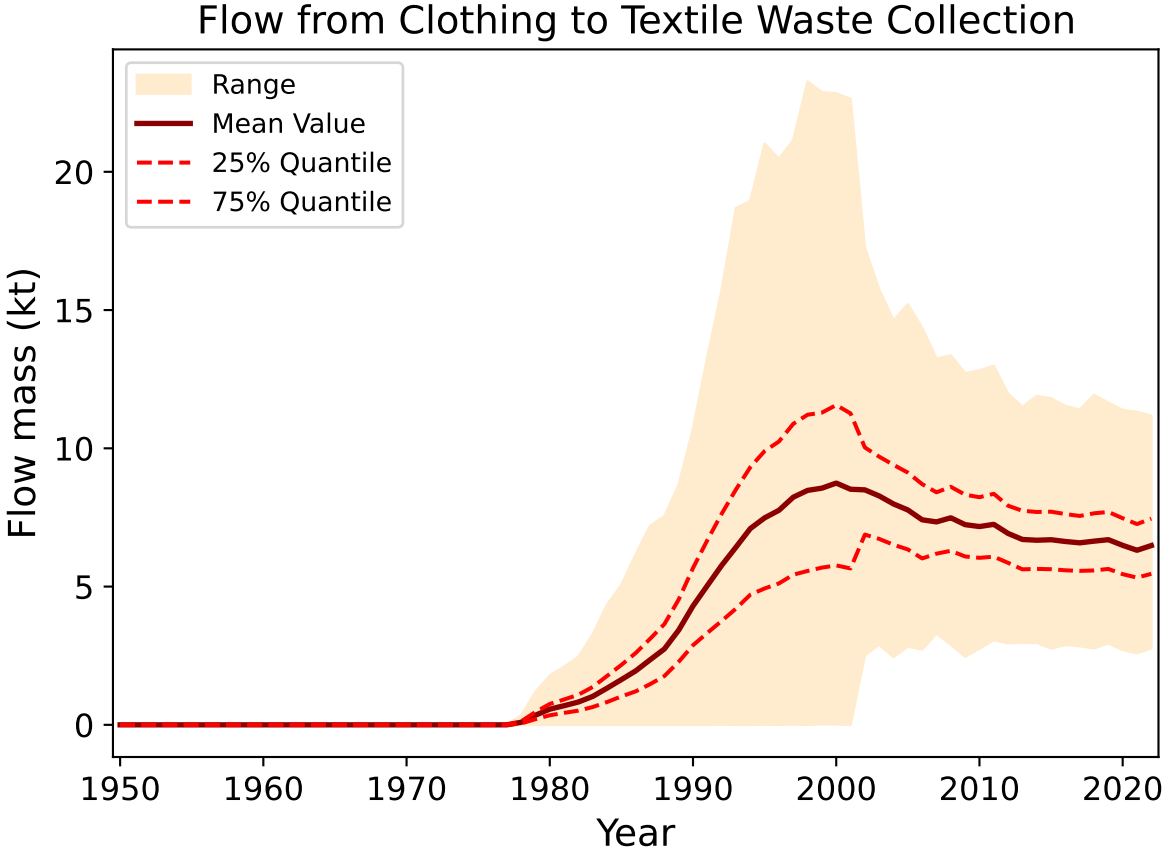

Flow from Other Plastic Products to Mixed Waste Collection
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
1
2
3
4
5
6
7
1950
1960
1970
1980
1990
2000
2010
2020
Year

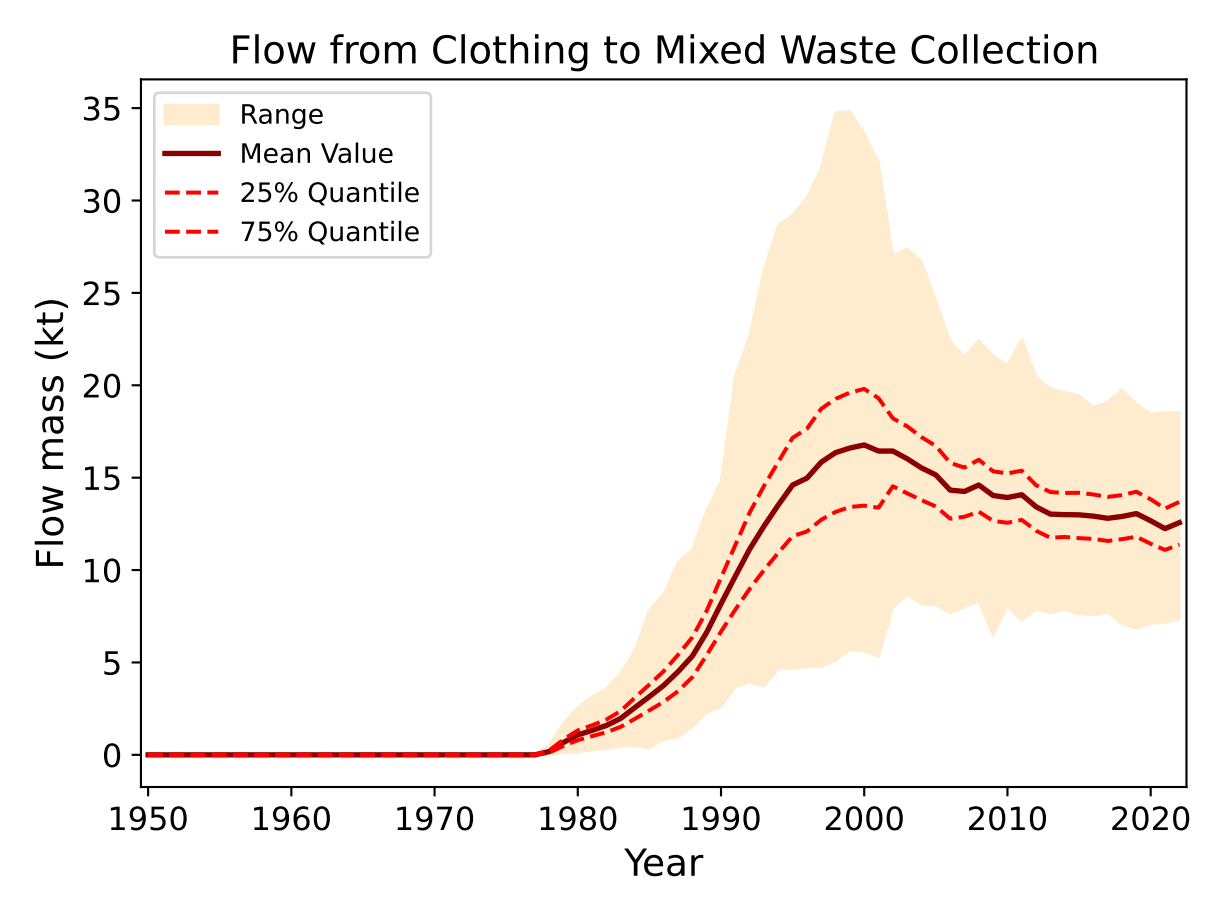

Flow from Clothing to Indoor air (micro)
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
1950
1960
1970
1980
1990
2000
2010
2020
Year

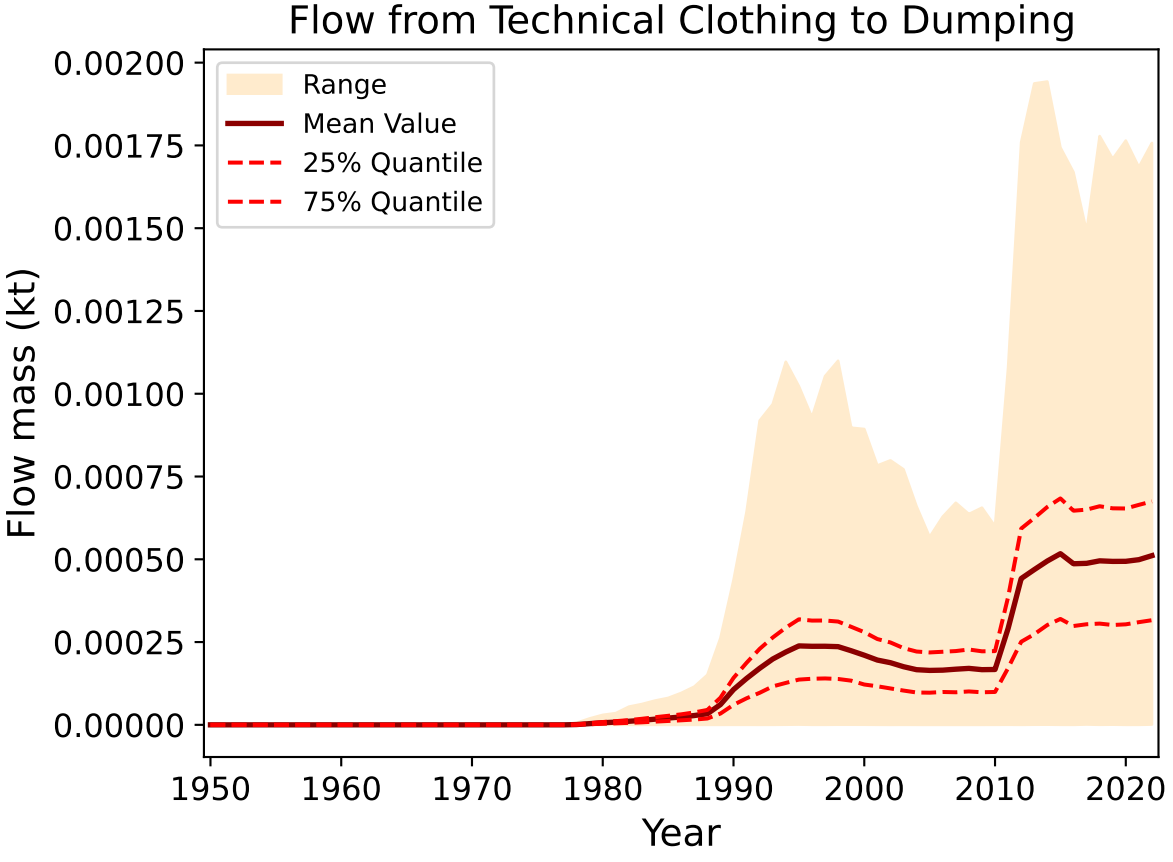

Flow from Clothing to Outdoor air (micro)
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
1950
1960
1970
1980
1990
2000
2010
2020
Year

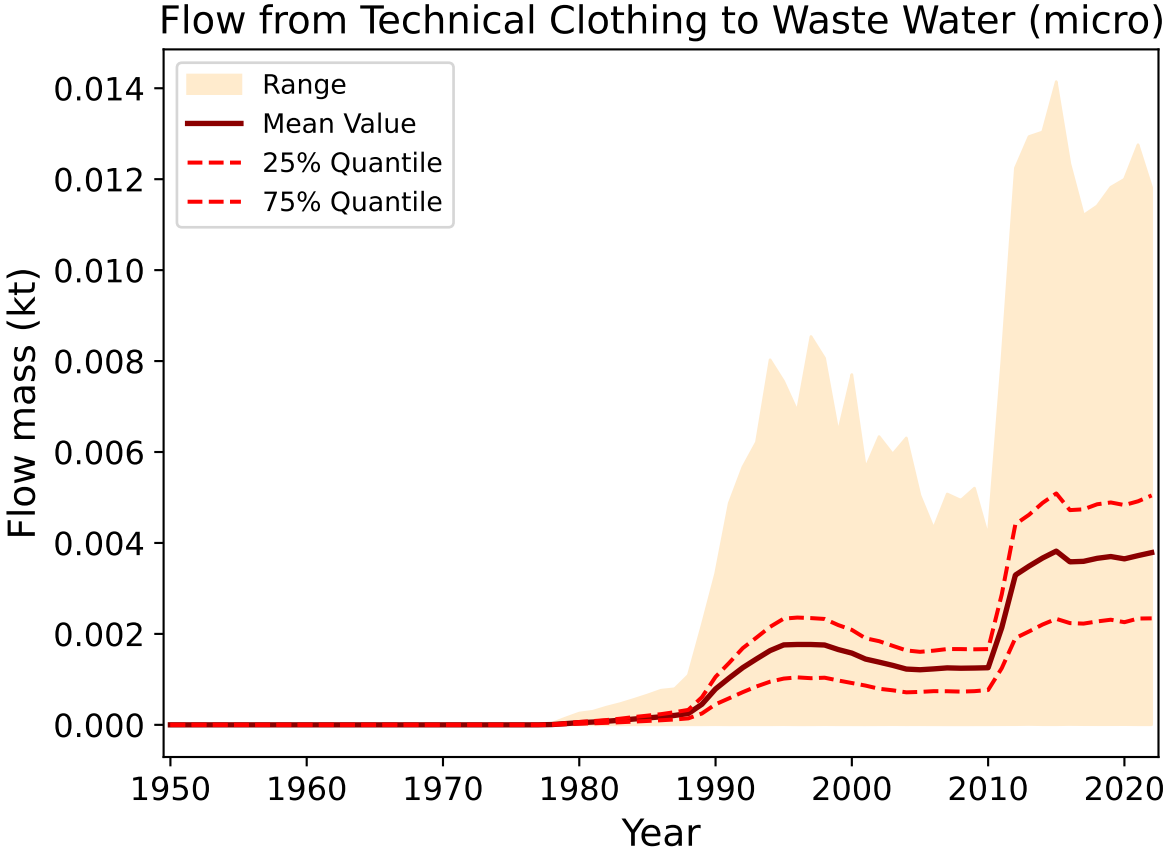

Flow from Clothing to Waste Water (micro)
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
1950
1960
1970
1980
1990
2000
2010
2020
Year

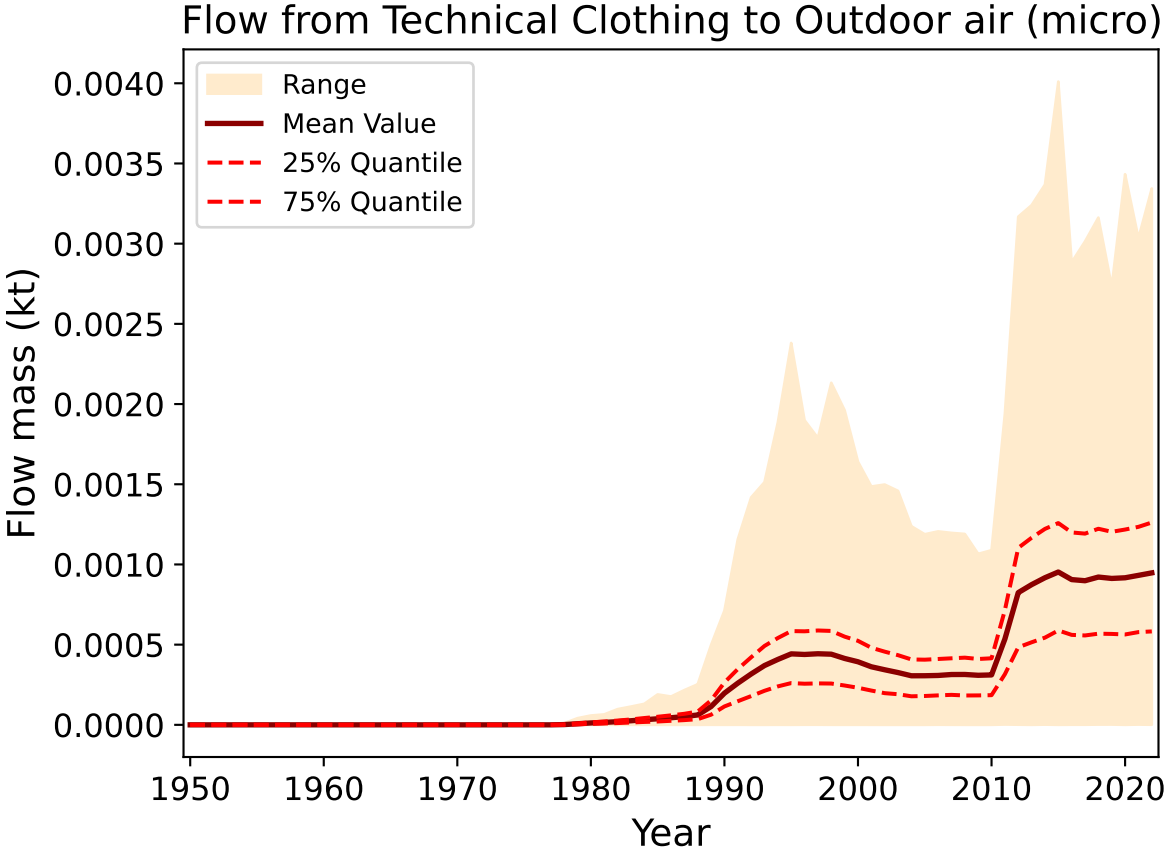

Flow from Clothing to Dumping
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0.0000
1950
1960
1970
1980
1990
2000
2010
2020
Year

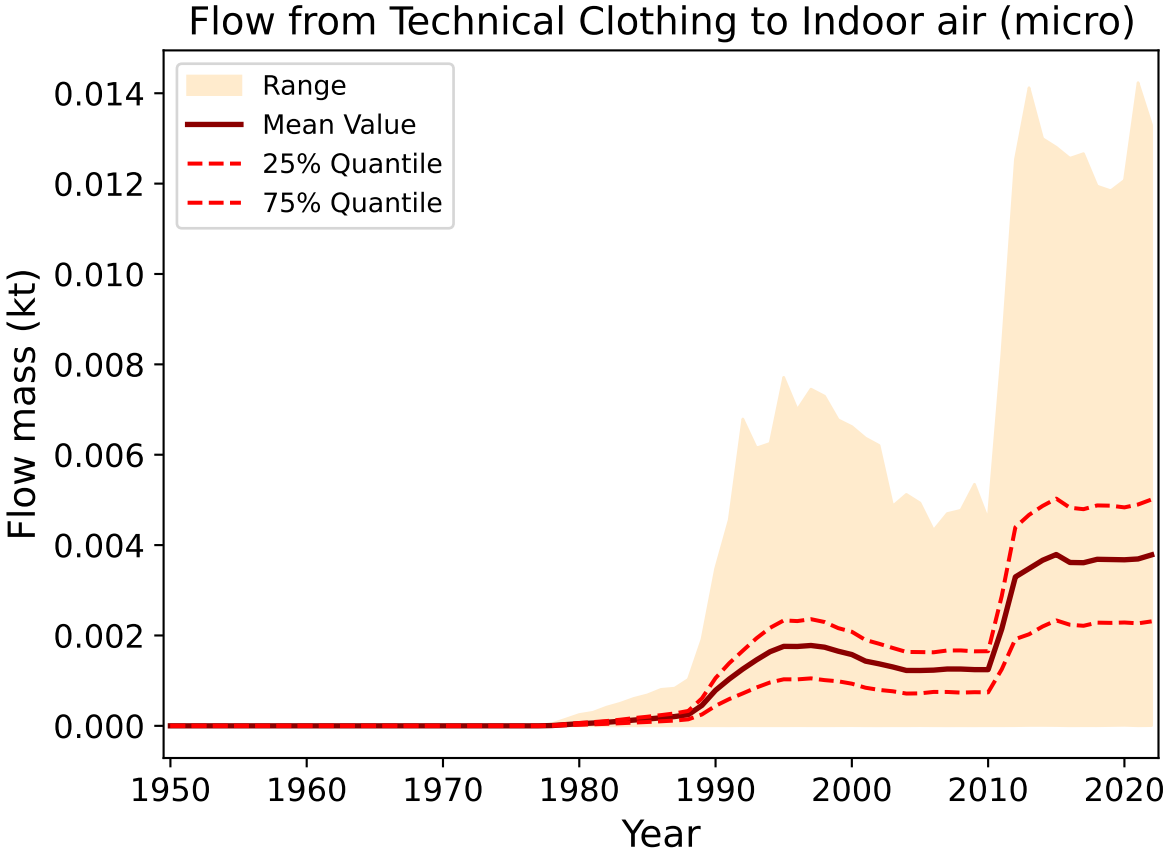

Flow from Clothing to Textile Waste Collection
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
5
10
15
20
1950
1960
1970
1980
1990
2000
2010
2020
Year

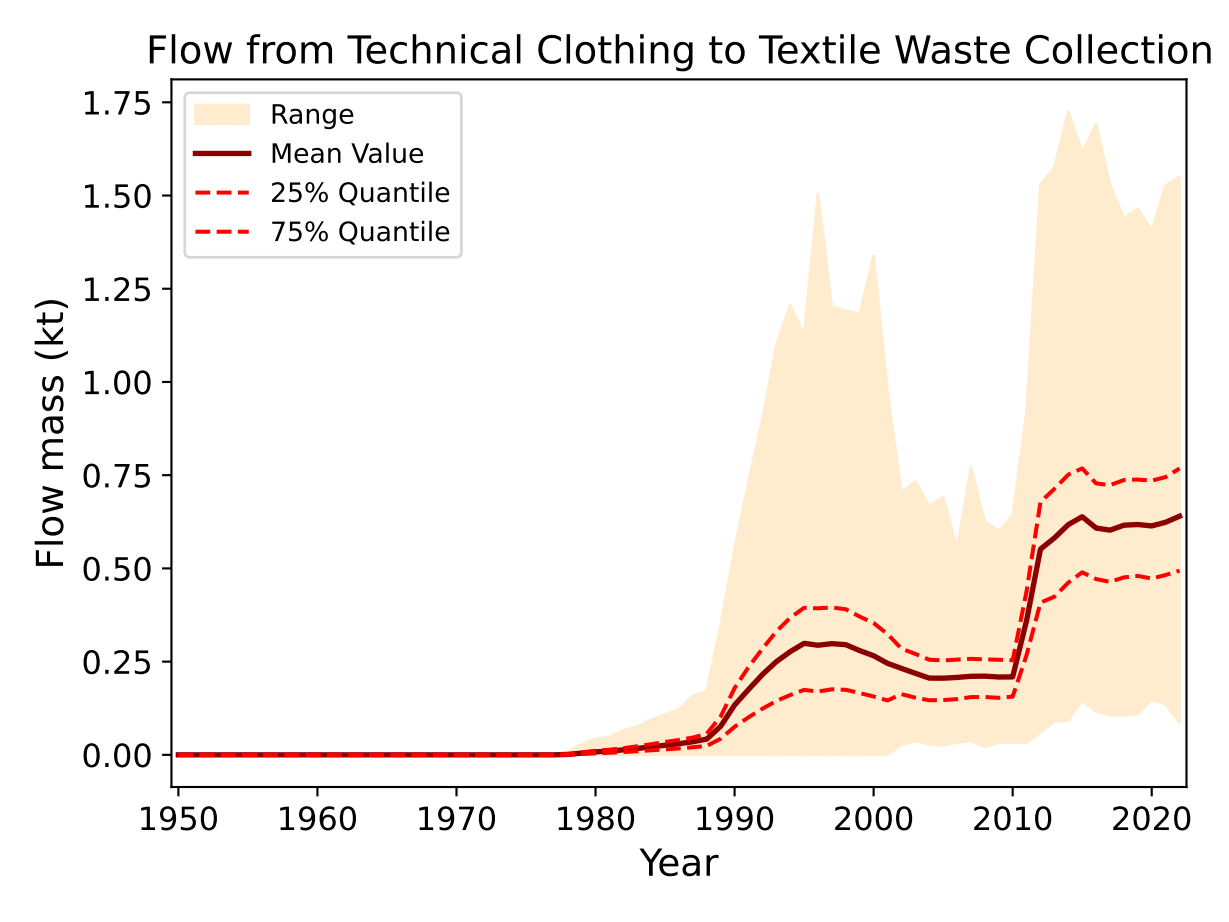

Flow from Clothing to Mixed Waste Collection
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
5
10
15
20
25
30
35
1950
1960
1970
1980
1990
2000
2010
2020
Year

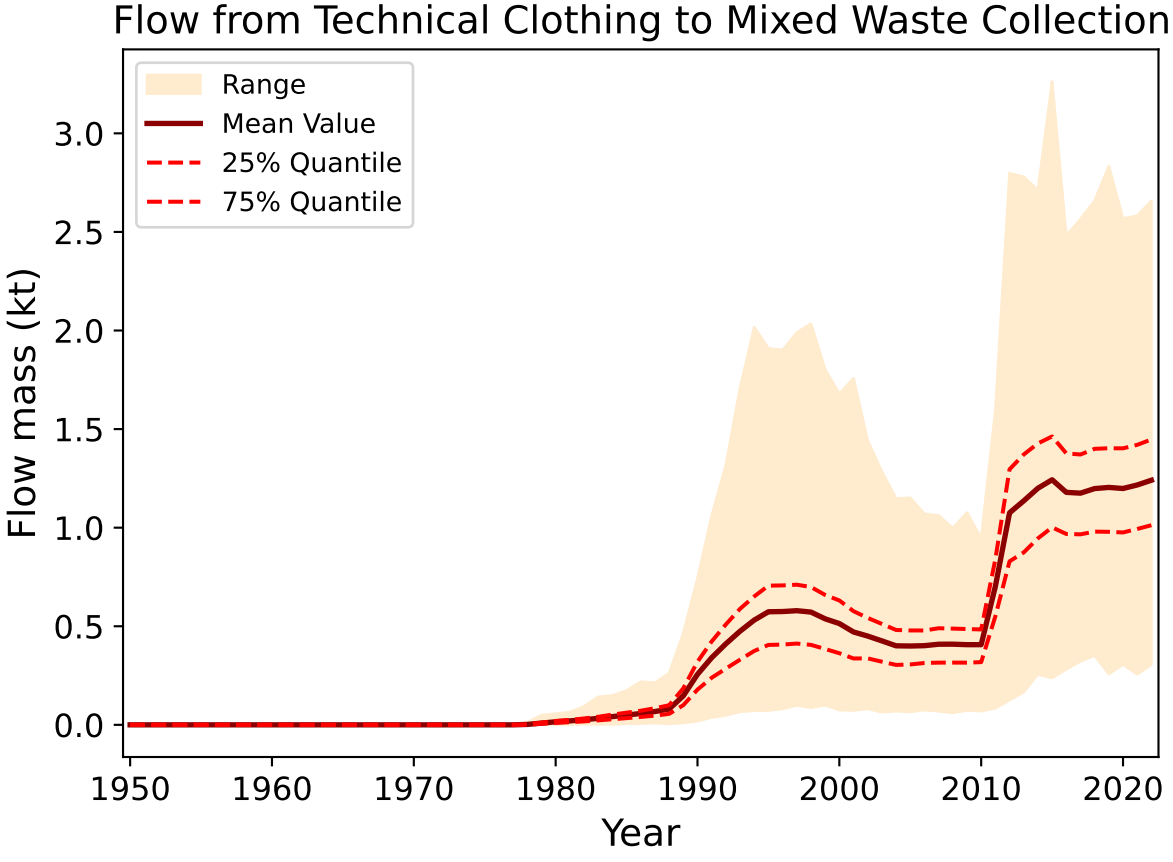

Flow from Technical Clothing to Dumping
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.00200
0.00175
0.00150
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
1950
1960
1970
1980
1990
2000
2010
2020
Year

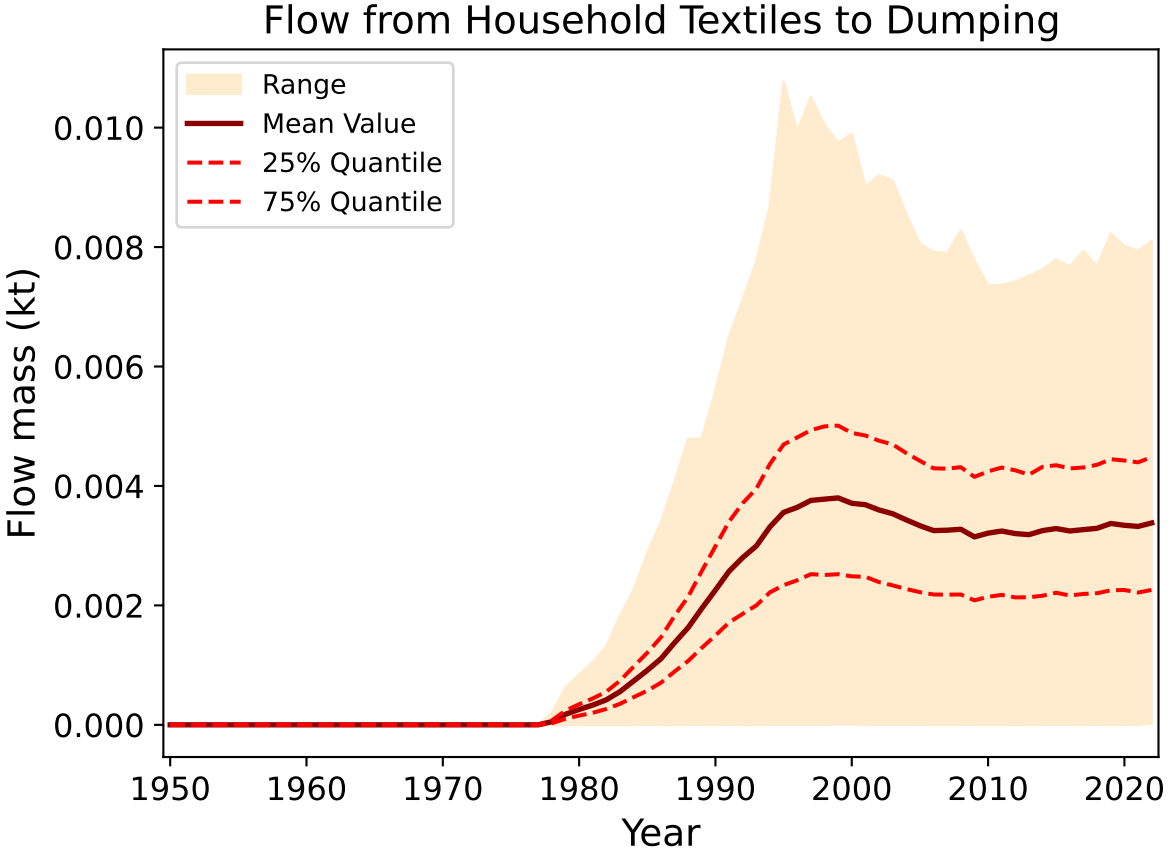

Flow from Technical Clothing to Waste Water (micro)
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
1950
1960
1970
1980
1990
2000
2010
2020
Year

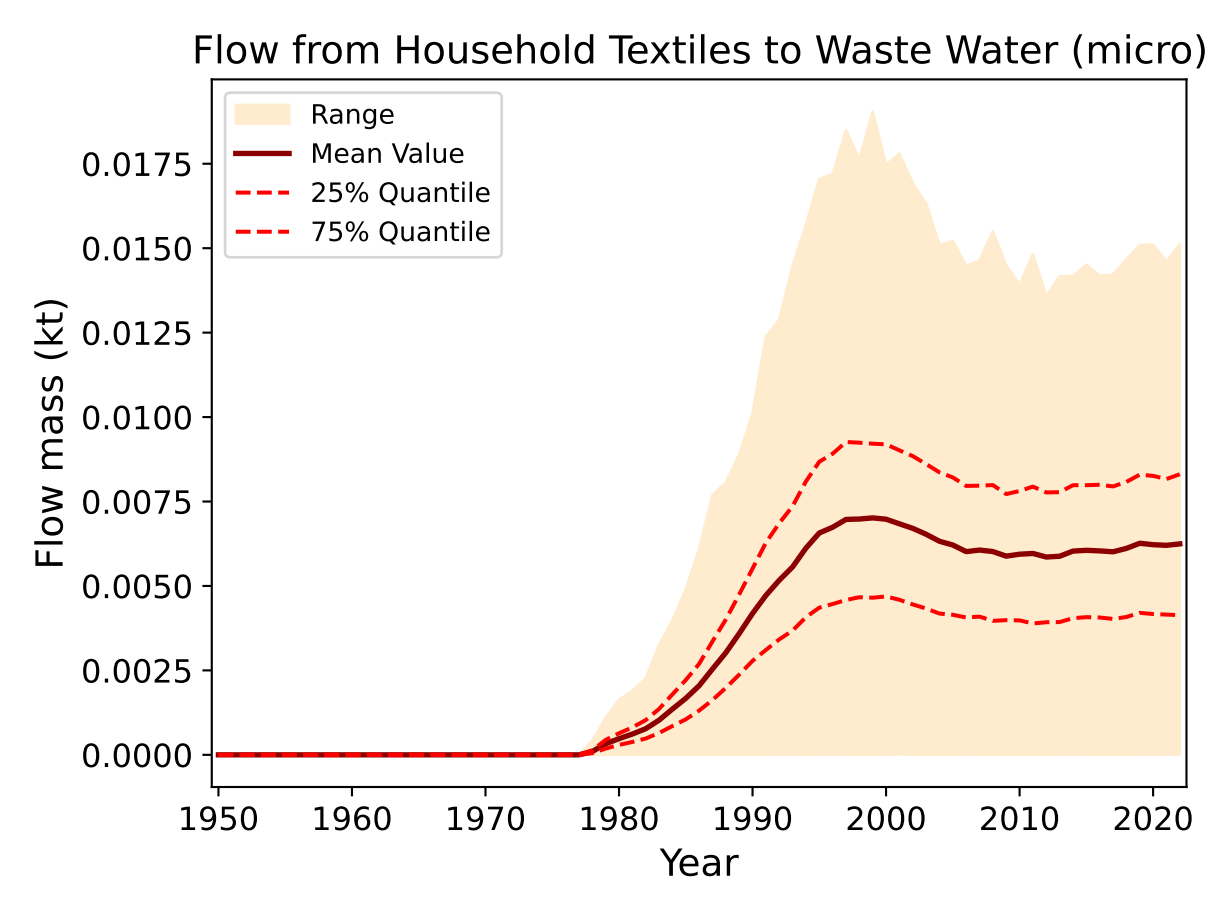

Flow from Technical Clothing to Outdoor air (micro)
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0040
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
1950
1960
1970
1980
1990
2000
2010
2020
Year

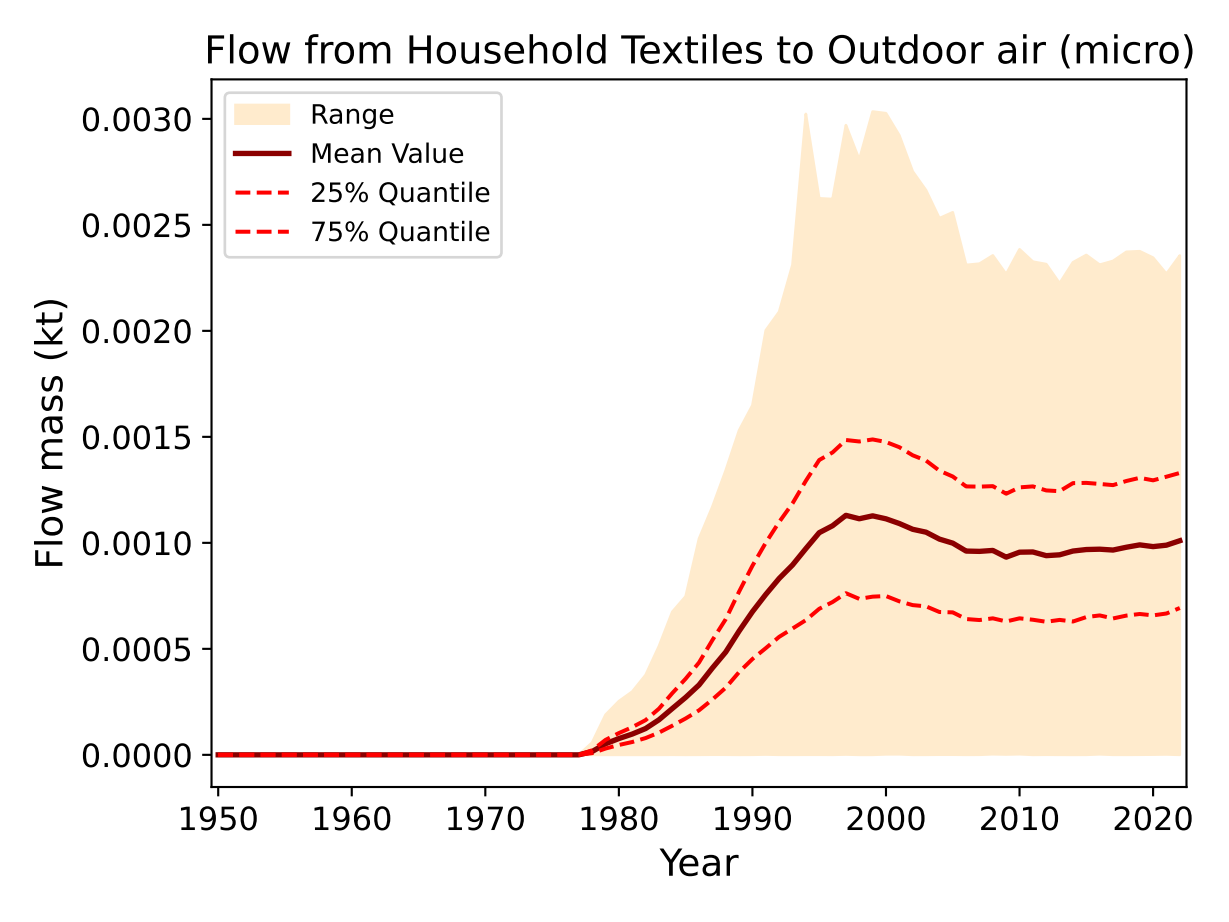

Flow from Technical Clothing to Indoor air (micro)
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
1950
1960
1970
1980
1990
2000
2010
2020
Year

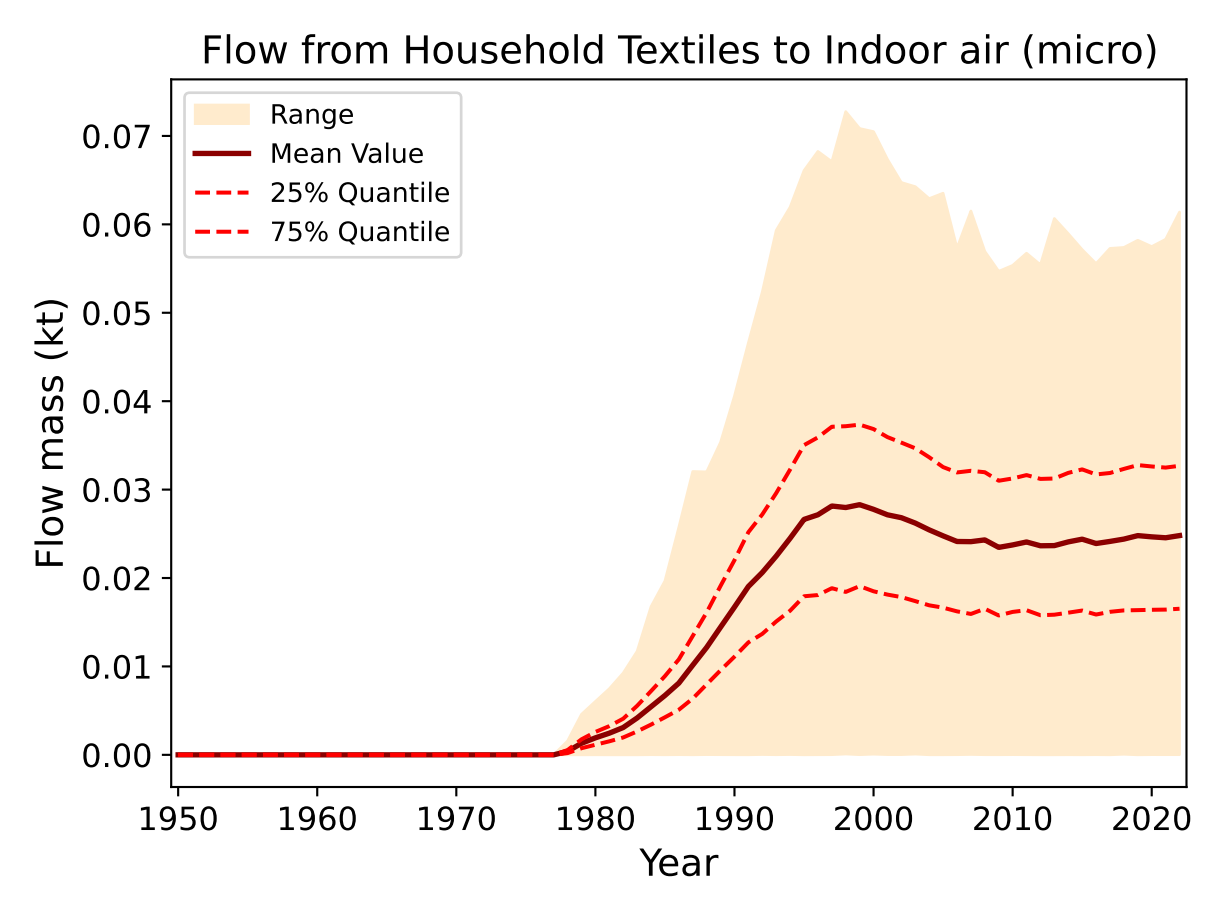

Flow from Technical Clothing to Textile Waste Collection
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
1.75
1.50
1.25
1.00
0.75
0.50
0.25
0.00
1950
1960
1970
1980
1990
2000
2010
2020
Year

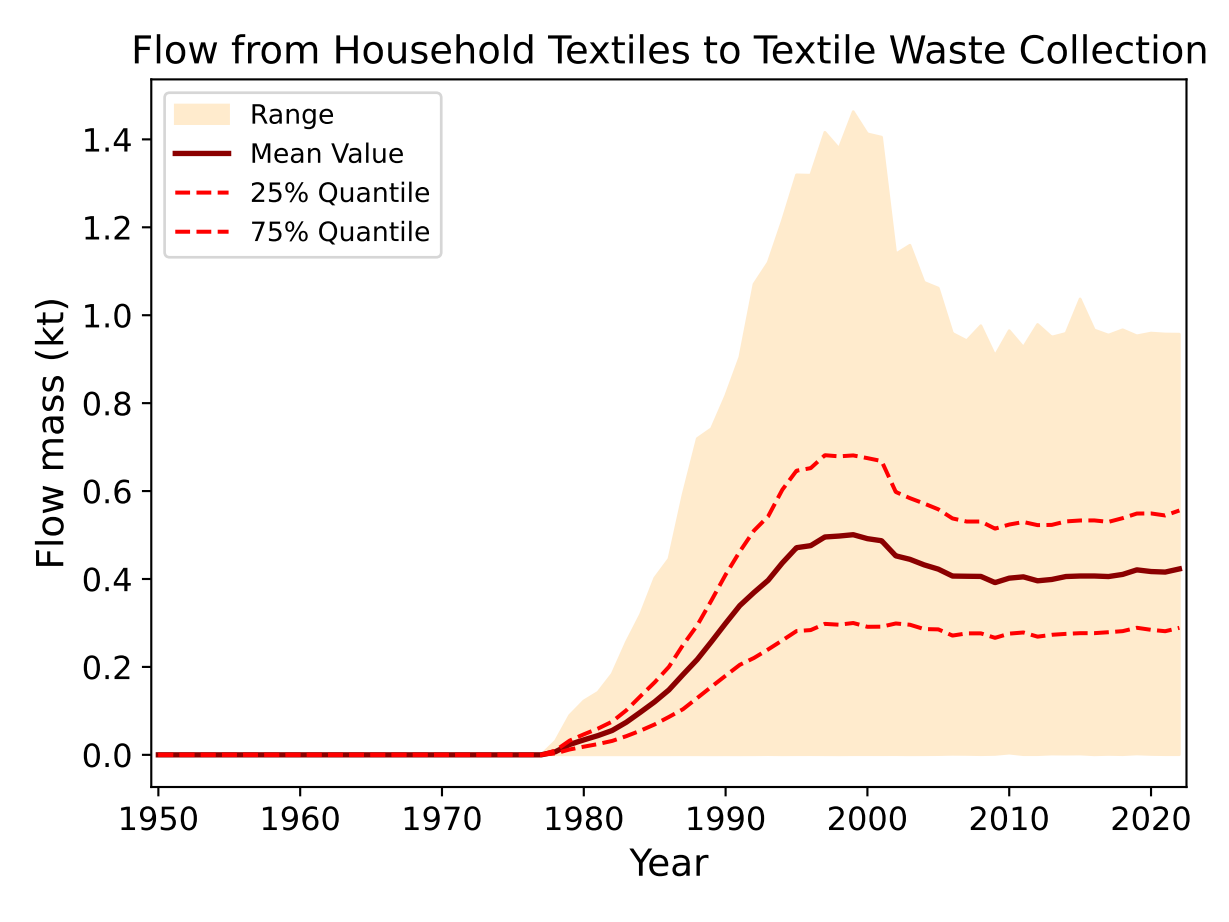

Flow from Technical Clothing to Mixed Waste Collection
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0
0.5
1.0
1.5
2.0
2.5
3.0
1950
1960
1970
1980
1990
2000
2010
2020
Year

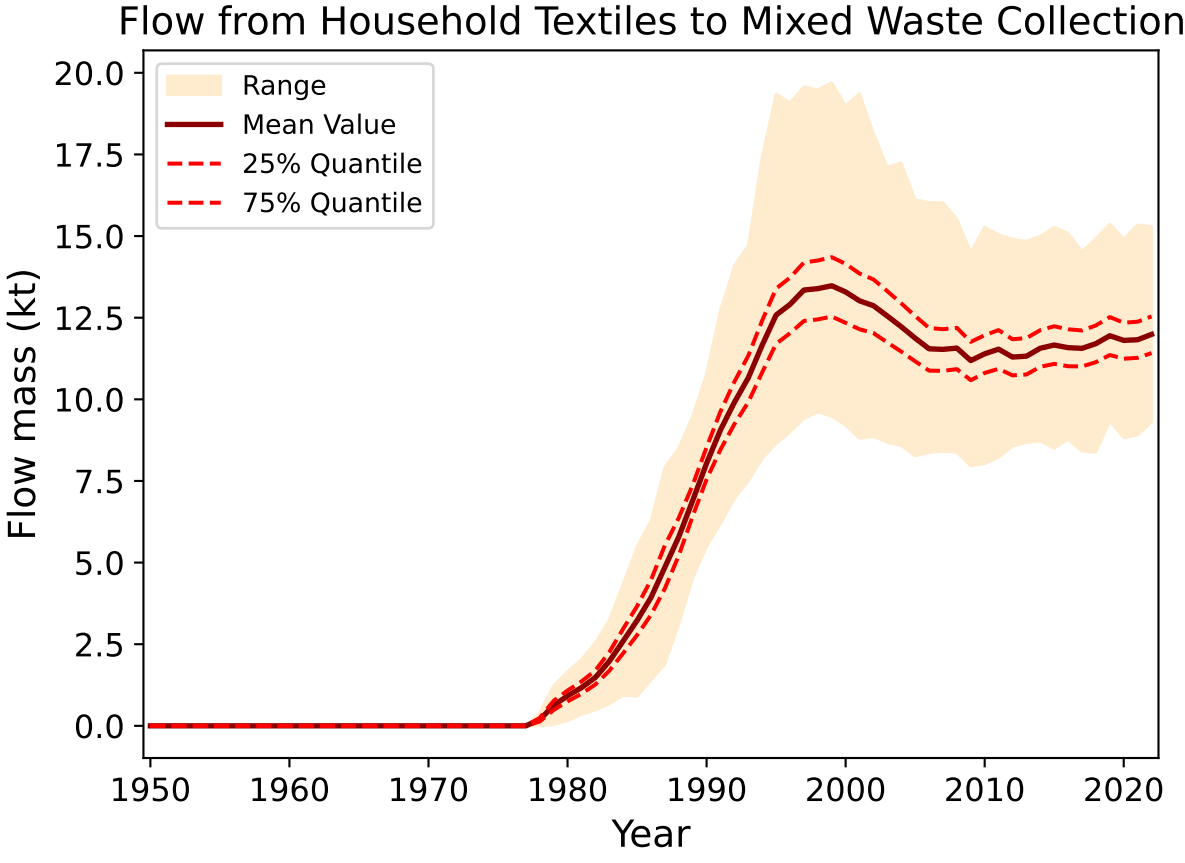

Flow from Household Textiles to Dumping
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.010
0.008
0.006
0.004
0.002
0.000
1950
1960
1970
1980
1990
2000
2010
2020
Year

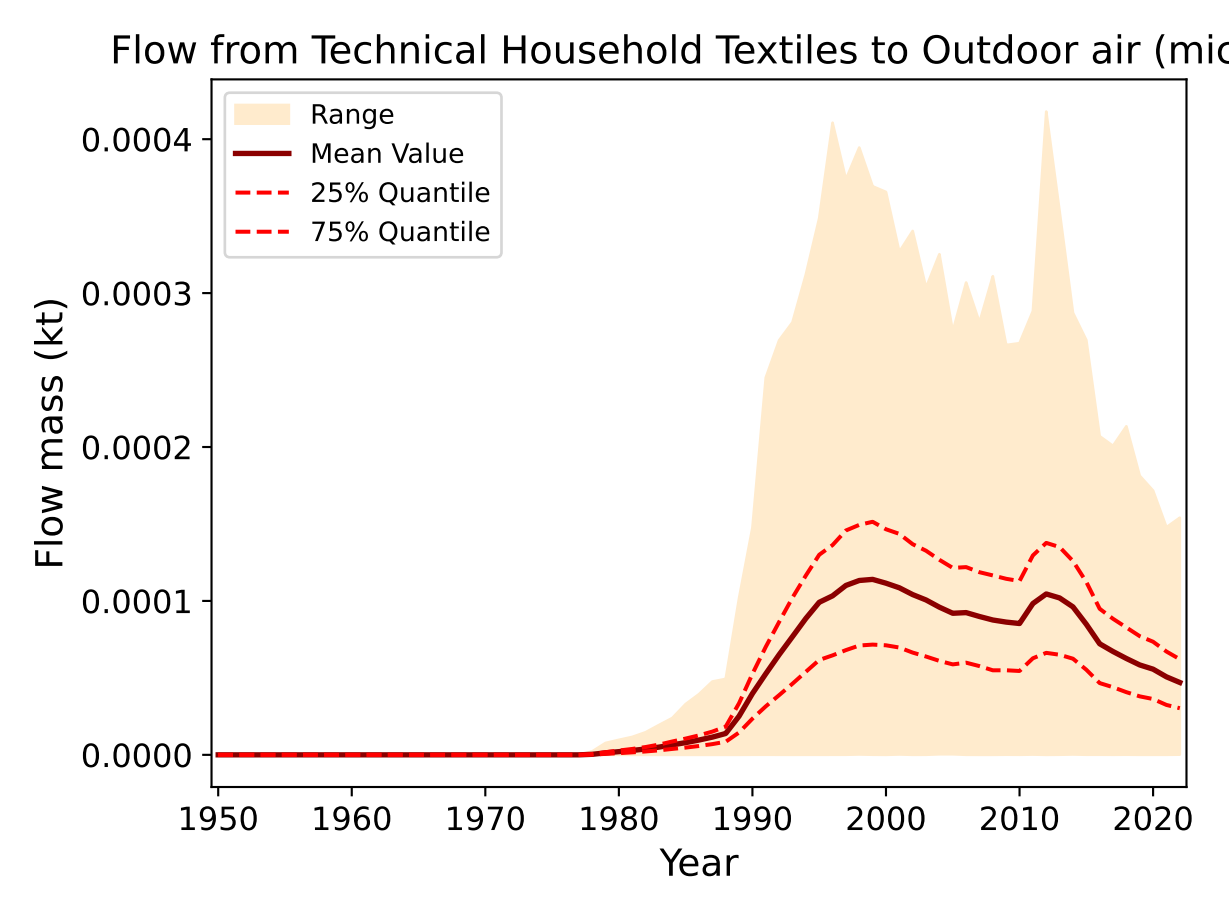

Flow from Household Textiles to Waste Water (micro)
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0.0000
1950
1960
1970
1980
1990
2000
2010
2020
Year

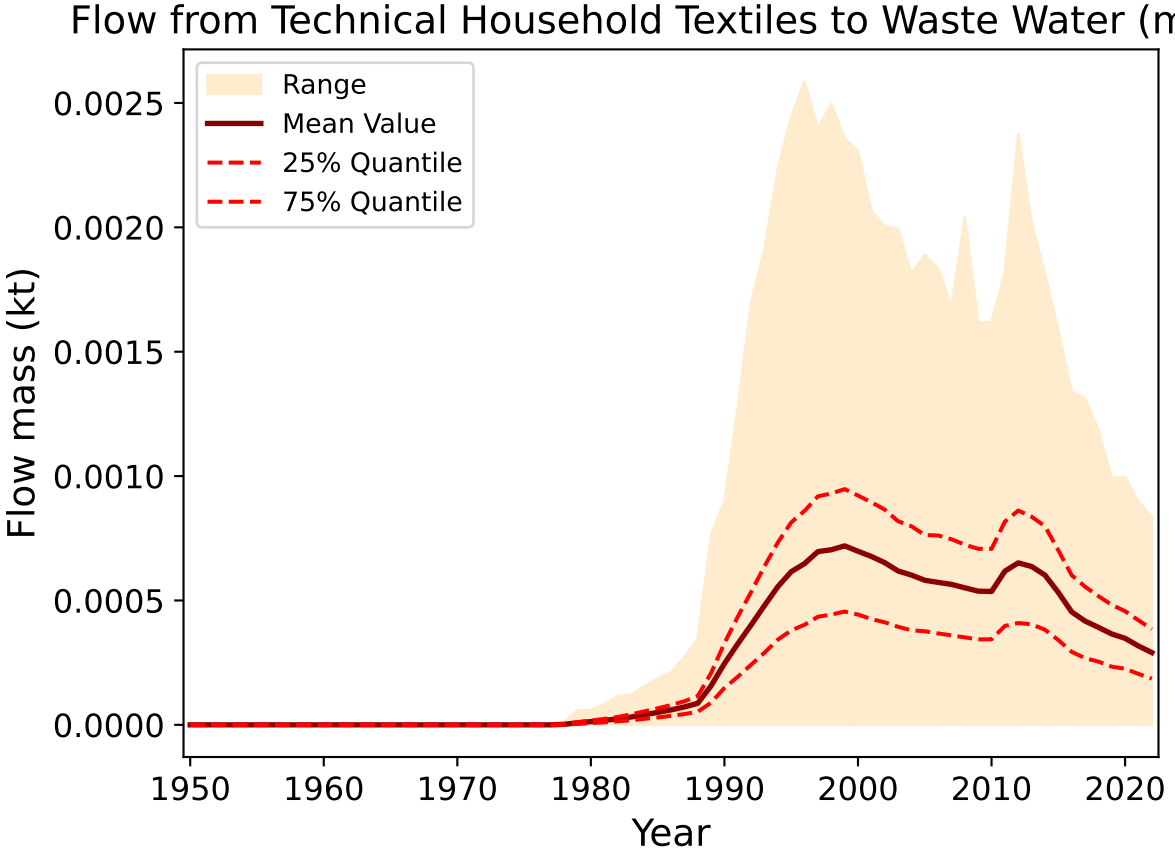

Flow from Household Textiles to Outdoor air (micro)
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
1950
1960
1970
1980
1990
2000
2010
2020
Year

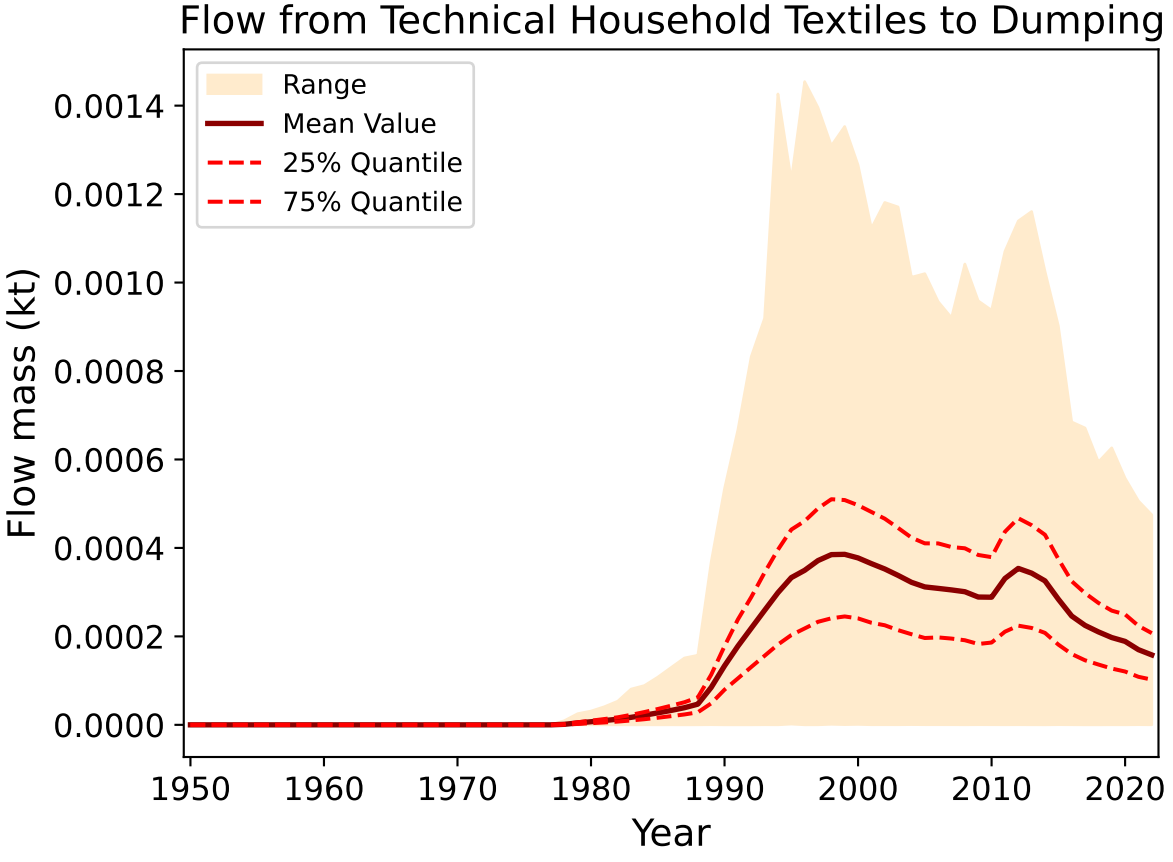

Flow from Household Textiles to Indoor air (micro)
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.00
0.01
0.02
0.03
0.04
0.05
0.06
0.07
1950
1960
1970
1980
1990
2000
2010
2020
Year

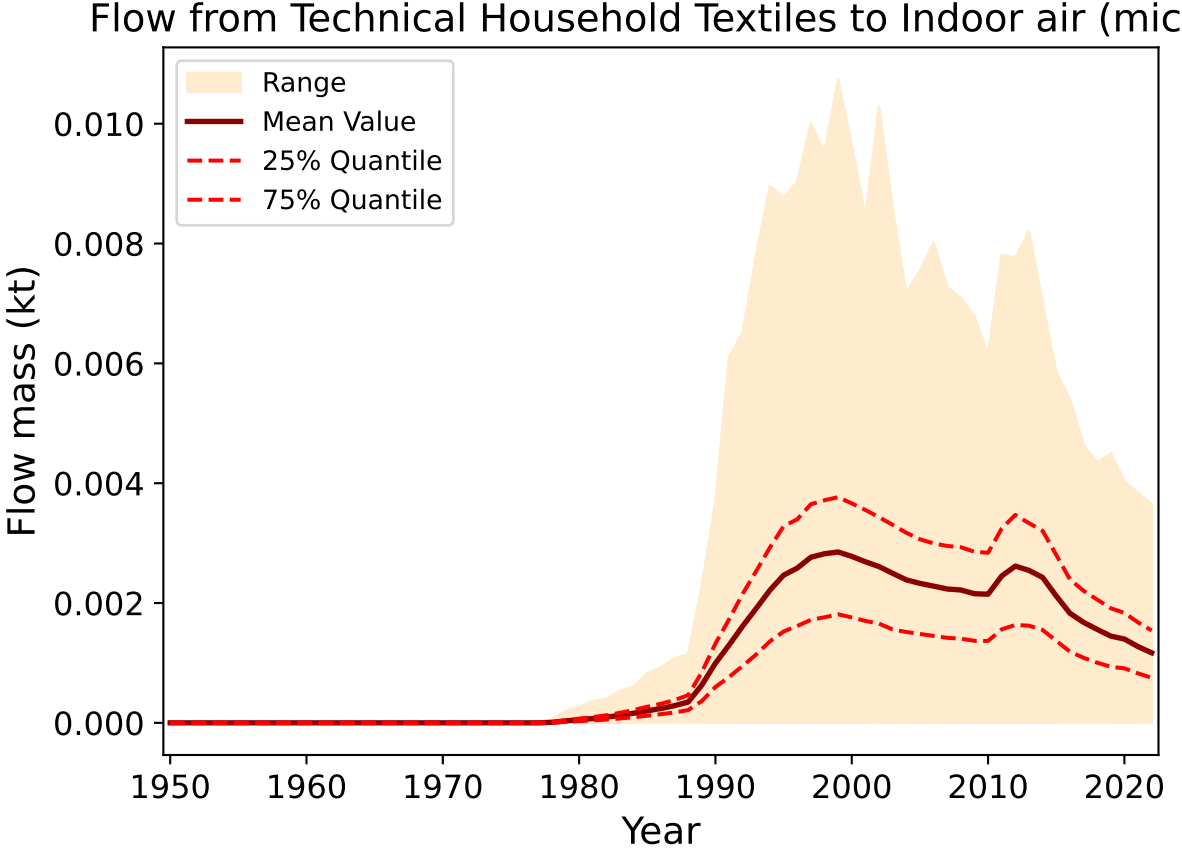

Flow from Household Textiles to Textile Waste Collection
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1950
1960
1970
1980
1990
2000
2010
2020
Year

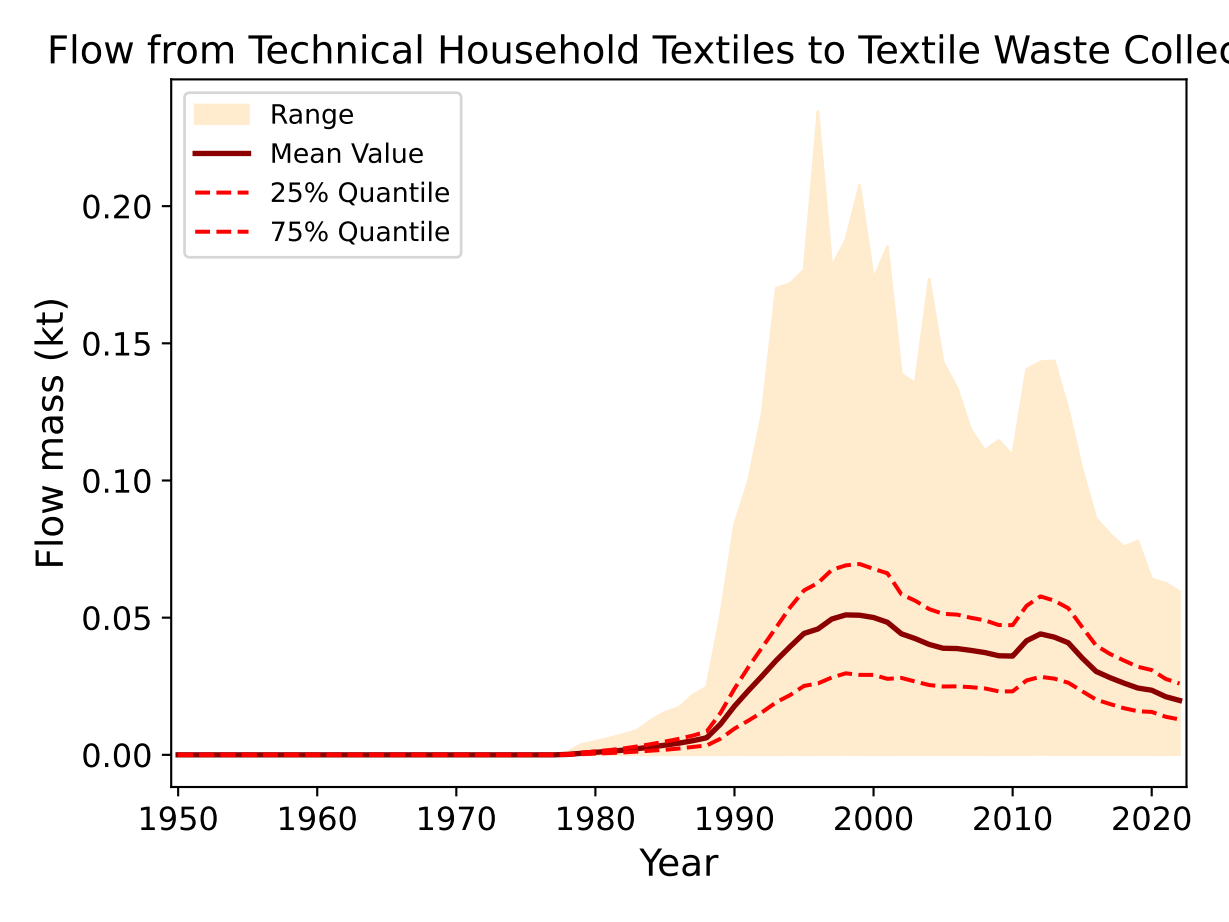

Flow from Household Textiles to Mixed Waste Collection
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0.0
1950
1960
1970
1980
1990
2000
2010
2020
Year

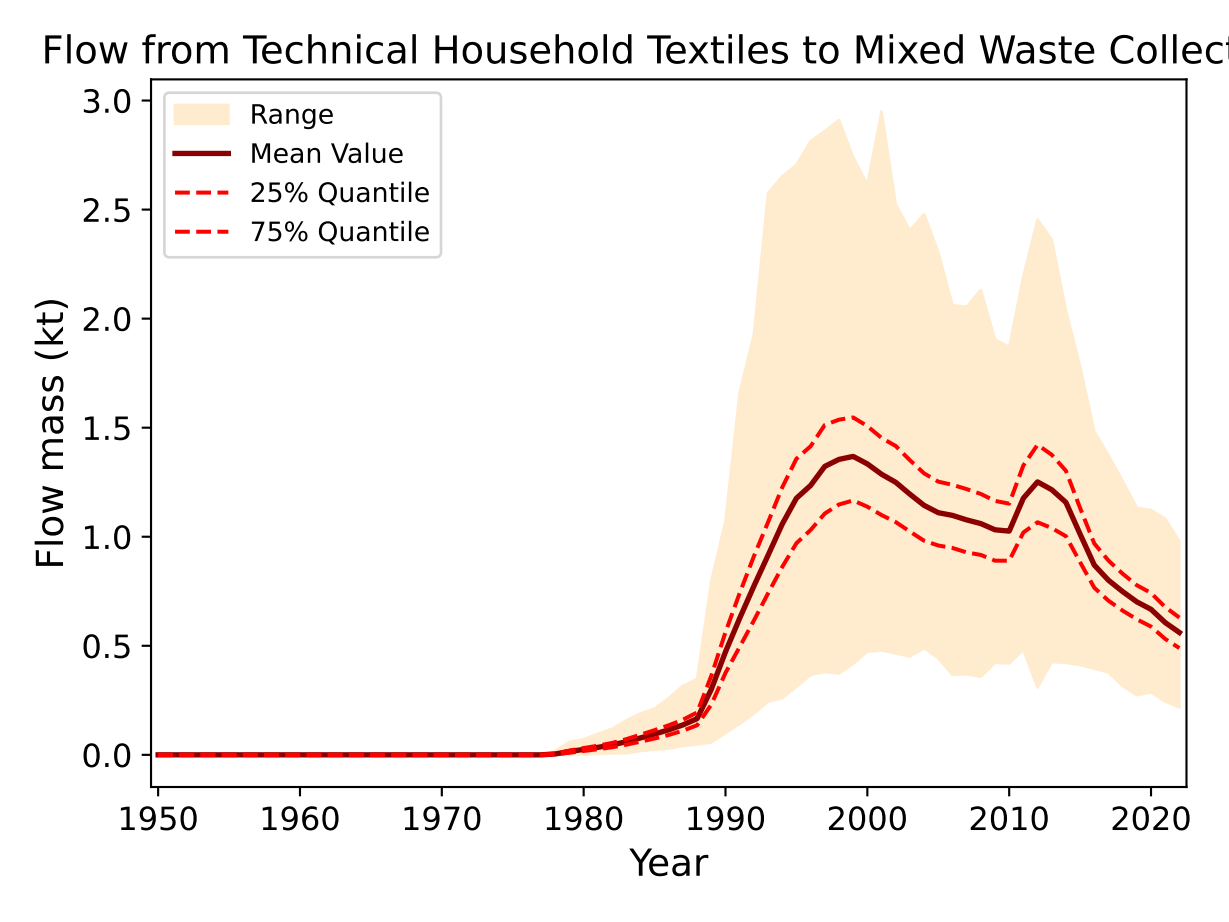

Flow from Technical Household Textiles to Outdoor air (mic
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0004
0.0003
0.0002
0.0001
0.0000
1950
1960
1970
1980
1990
2000
2010
2020
Year

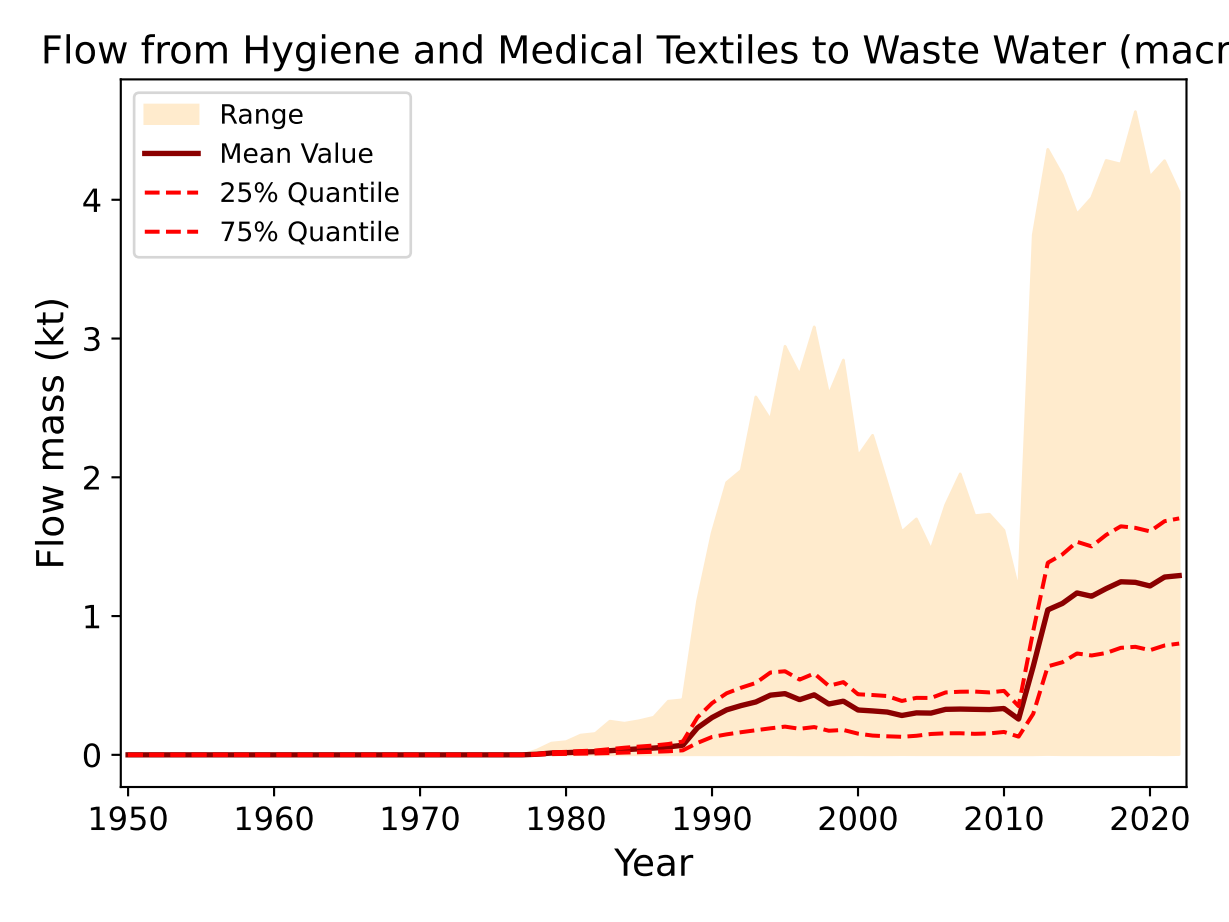

Flow from Technical Household Textiles to Waste Water (mi
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
1950
1960
1970
1980
1990
2000
2010
2020
Year

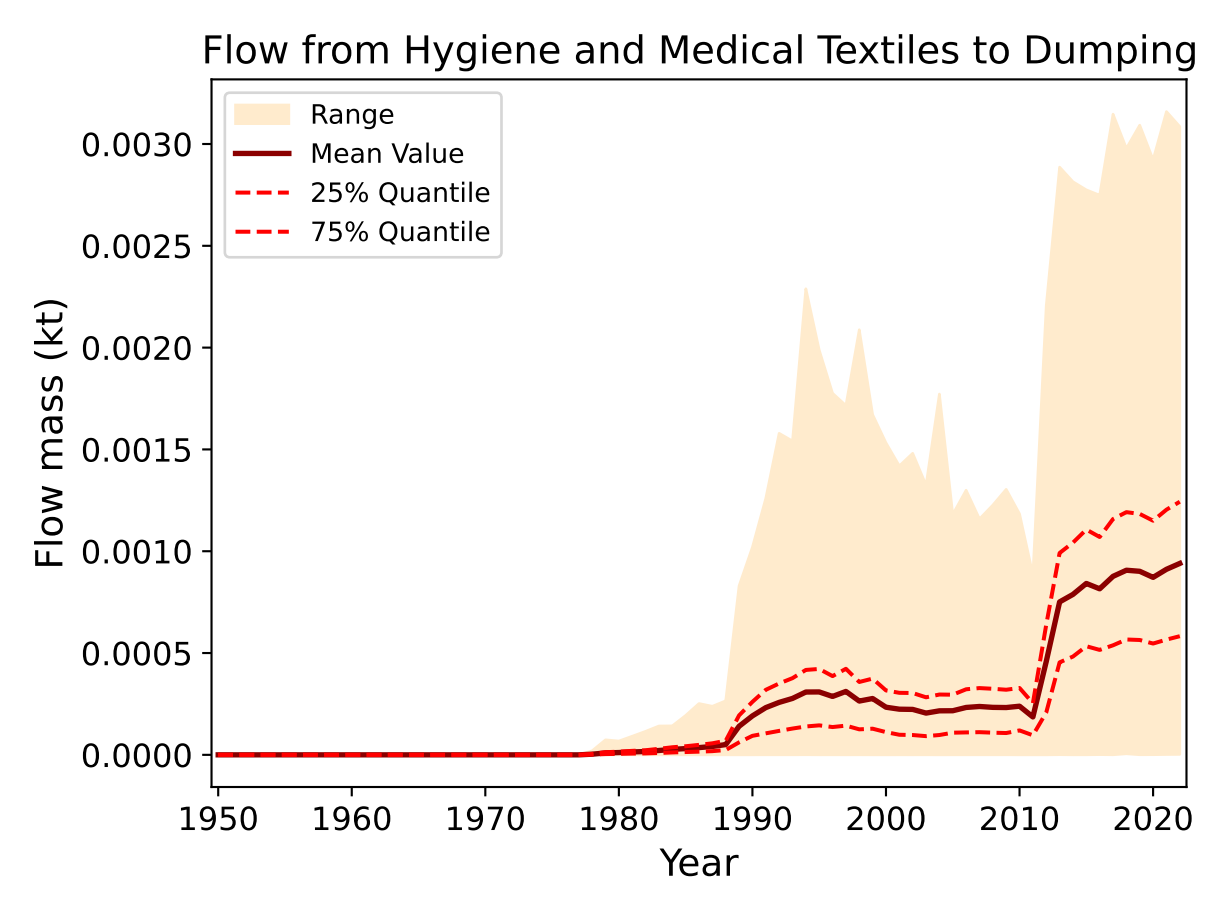

Flow from Technical Household Textiles to Dumping
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
1950
1960
1970
1980
1990
2000
2010
2020
Year

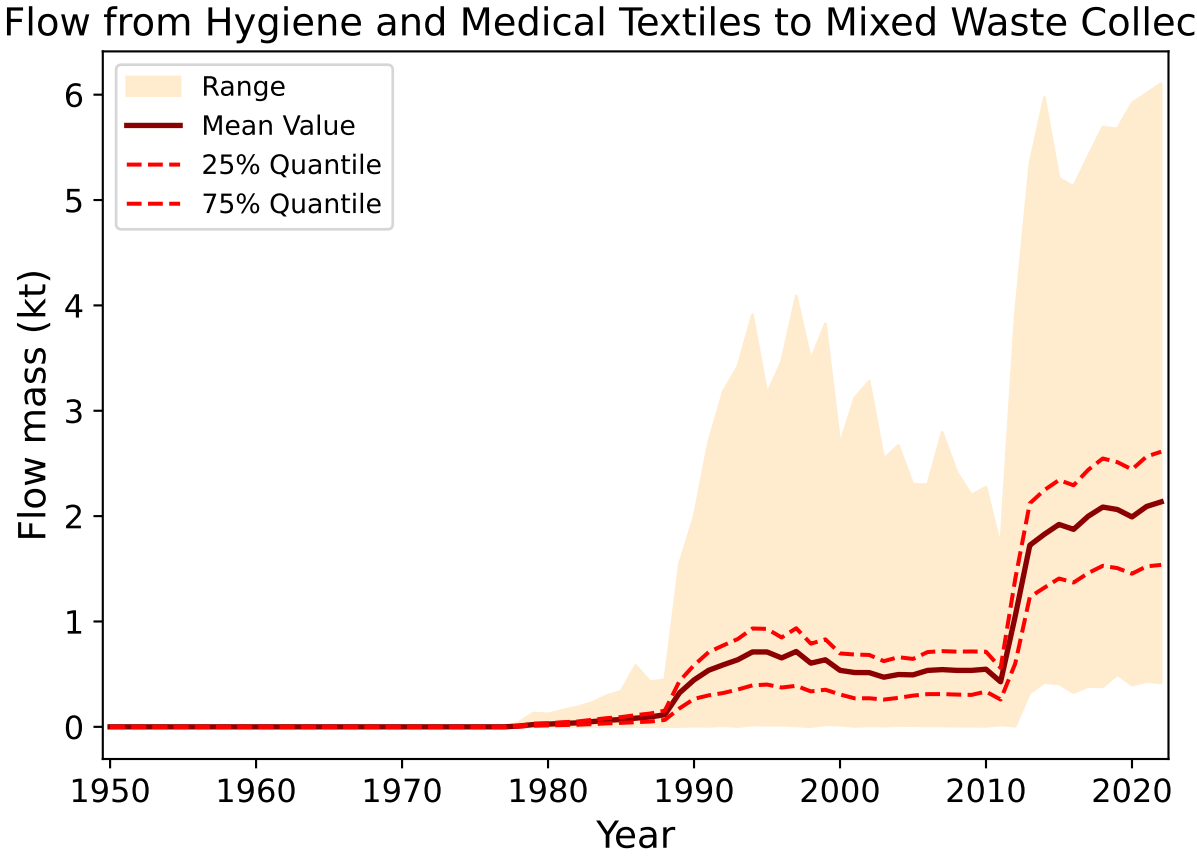

Flow from Technical Household Textiles to Indoor air (micr
Range
Mean Value
25% Quantile
75% Quantile
0.010
0.008
0.006
0.004
0.002
0.000
Flow mass (kt)
1950
1960
1970
1980
1990
2000
2010
2020
Year

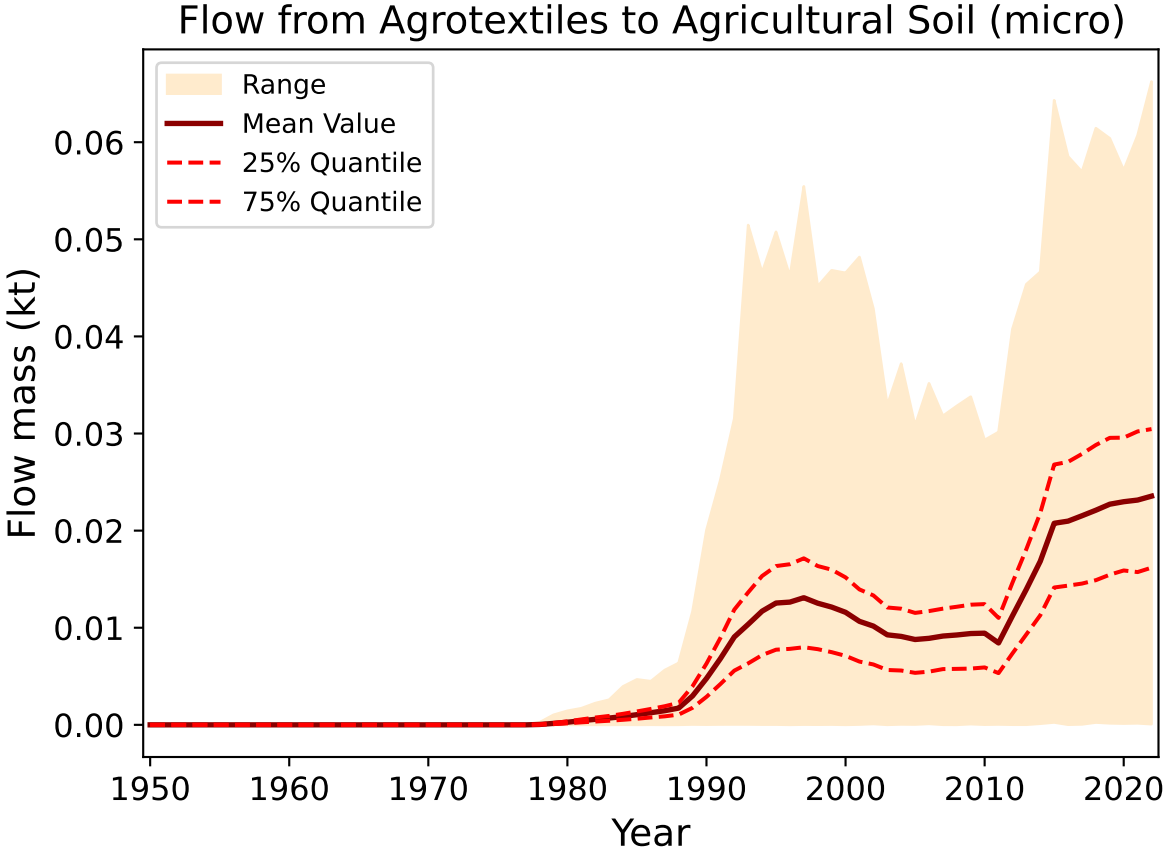

Flow from Technical Household Textiles to Textile Waste Collec
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.00
0.05
0.10
0.15
0.20
1950
1960
1970
1980
1990
2000
2010
2020
Year

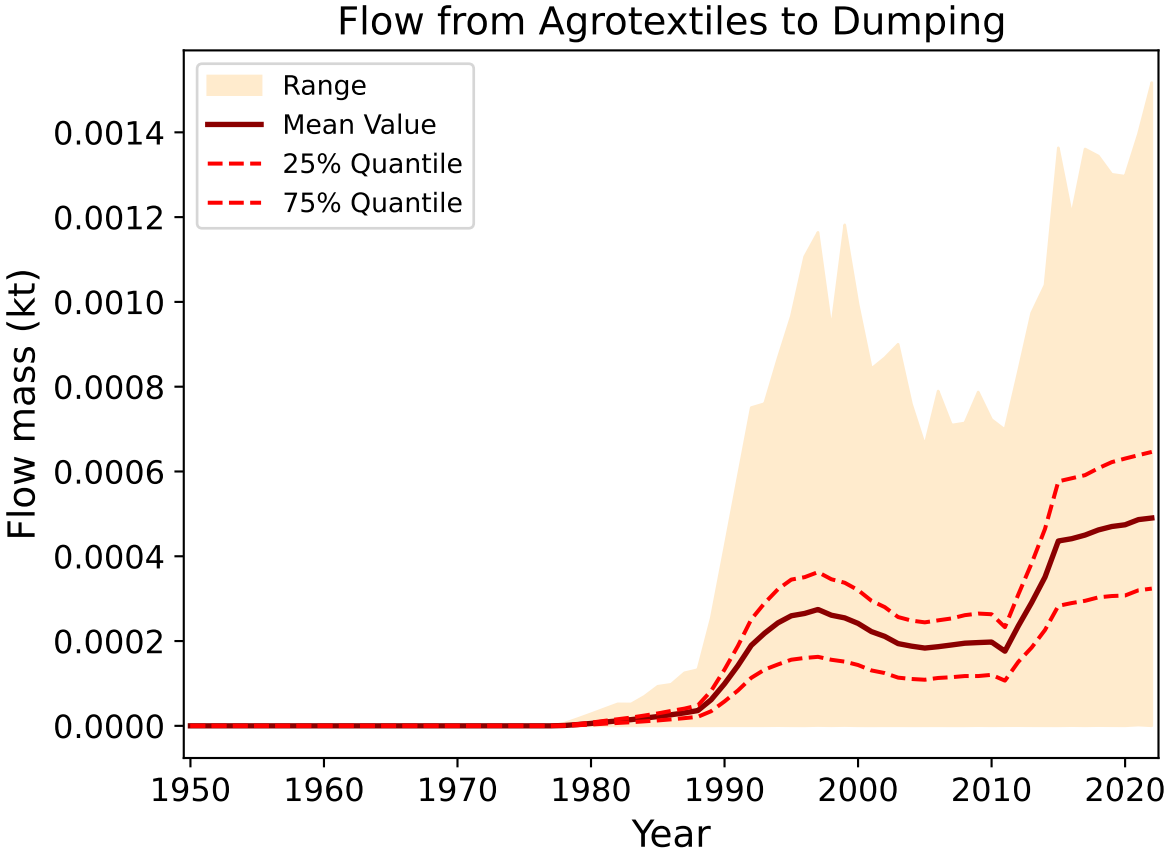

Flow from Technical Household Textiles to Mixed Waste Collect
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
1950
1960
1970
1980
1990
2000
2010
2020
Year

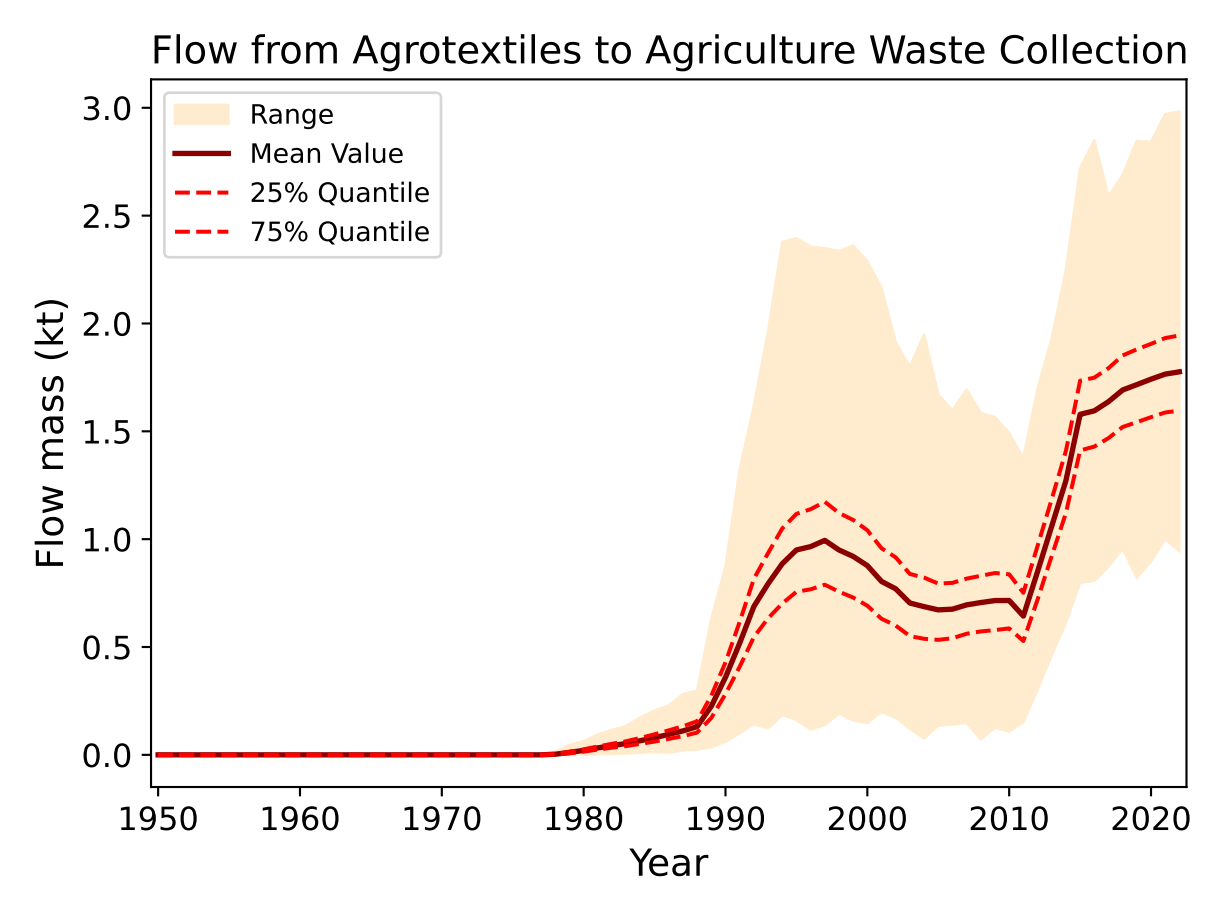

Flow from Hygiene and Medical Textiles to Waste Water (macr
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
1
2
3
4
1950
1960
1970
1980
1990
2000
2010
2020
Year

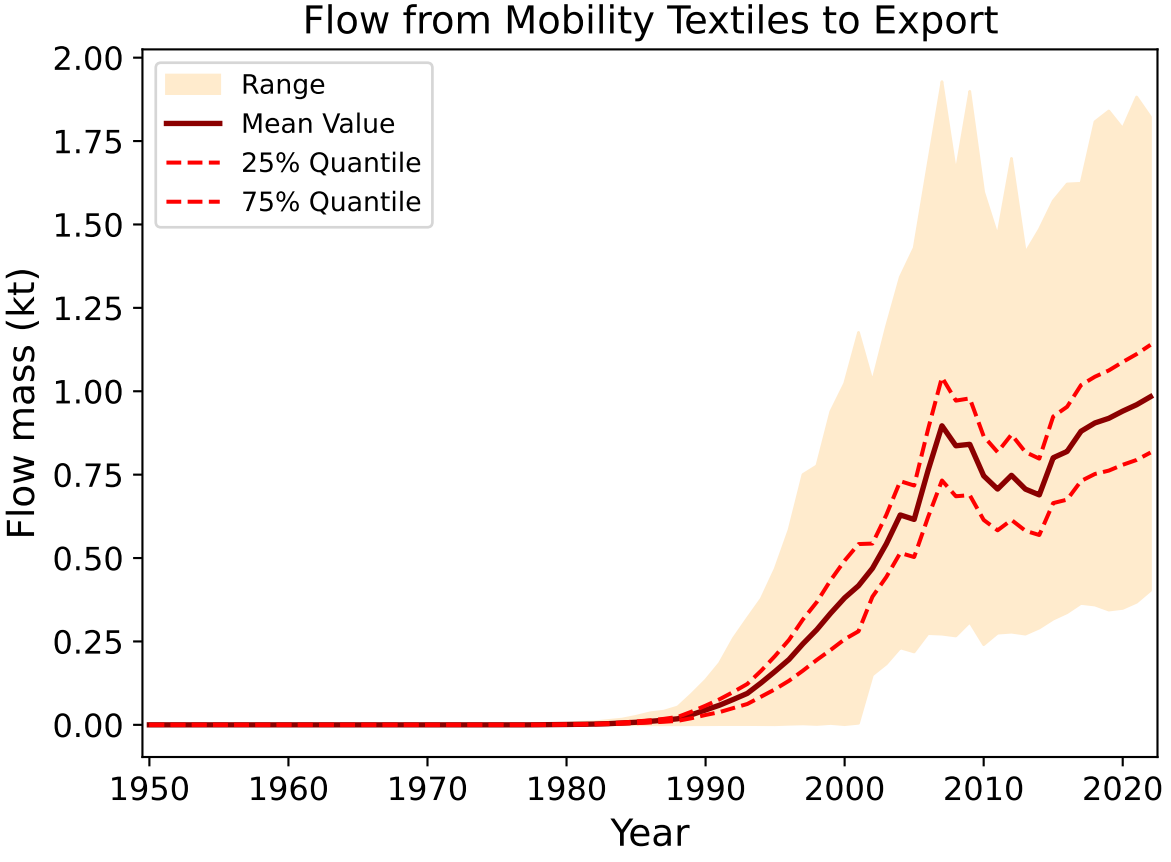

Flow from Hygiene and Medical Textiles to Dumping
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
1950
1960
1970
1980
1990
2000
2010
2020
Year

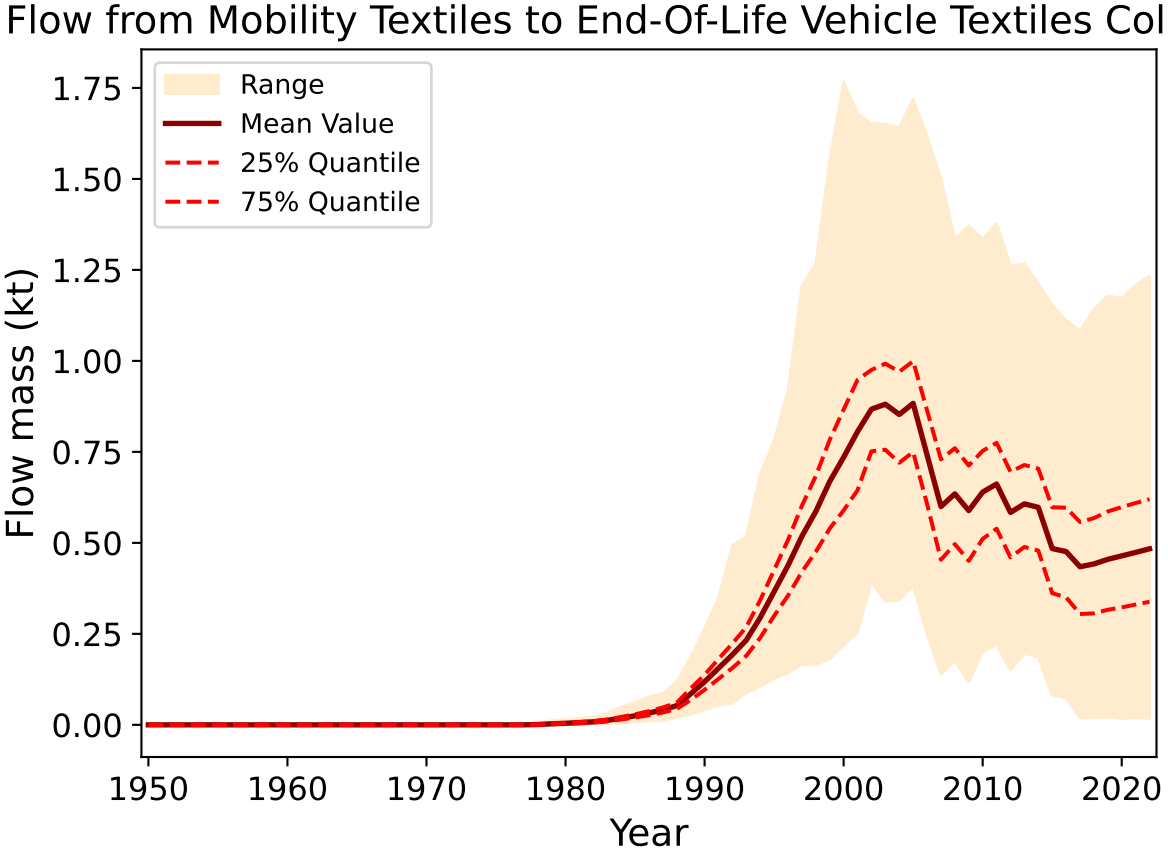

Flow from Hygiene and Medical Textiles to Mixed Waste Collect
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
1
2
3
4
5
6
1950
1960
1970
1980
1990
2000
2010
2020
Year

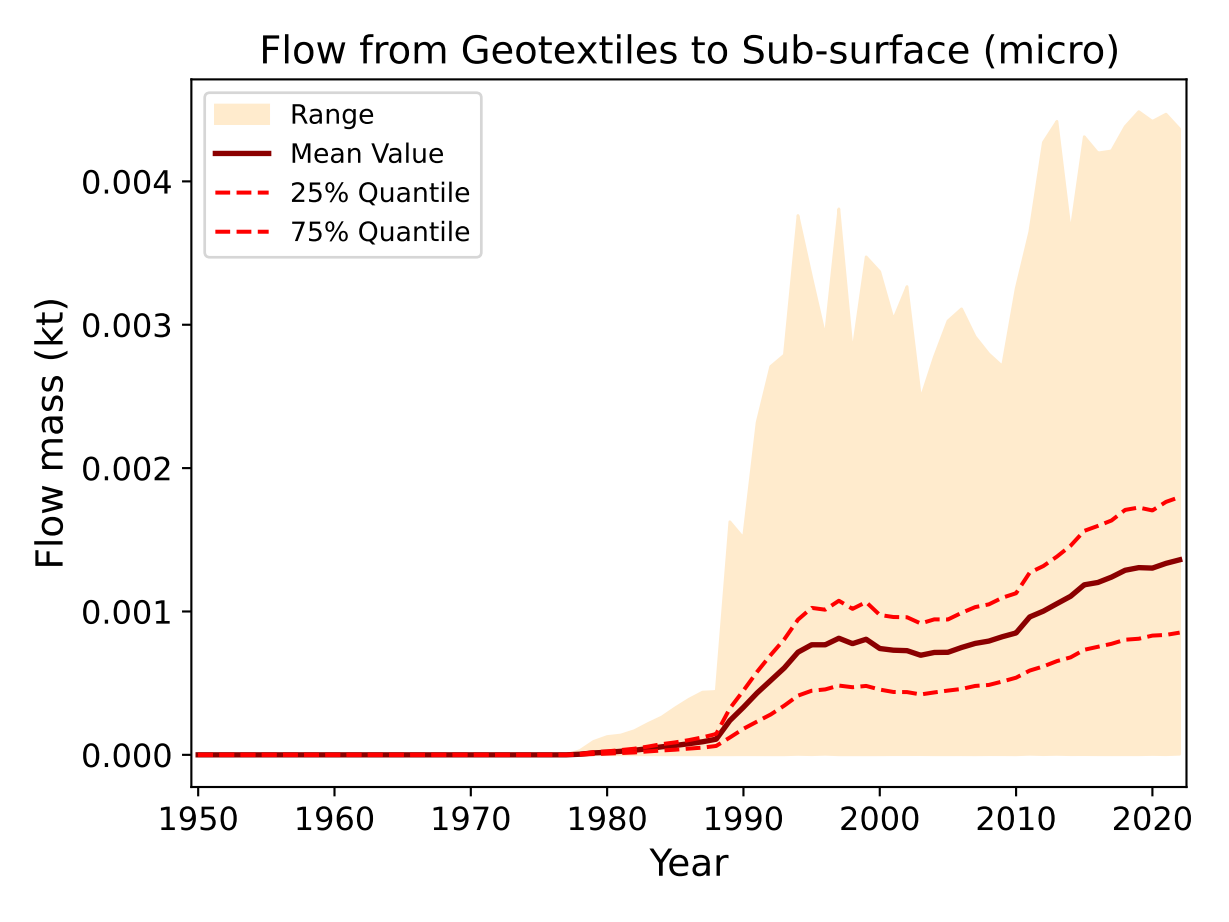

Flow from Agrotextiles to Agricultural Soil (micro)
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.00
0.01
0.02
0.03
0.04
0.05
0.06
1950
1960
1970
1980
1990
2000
2010
2020
Year

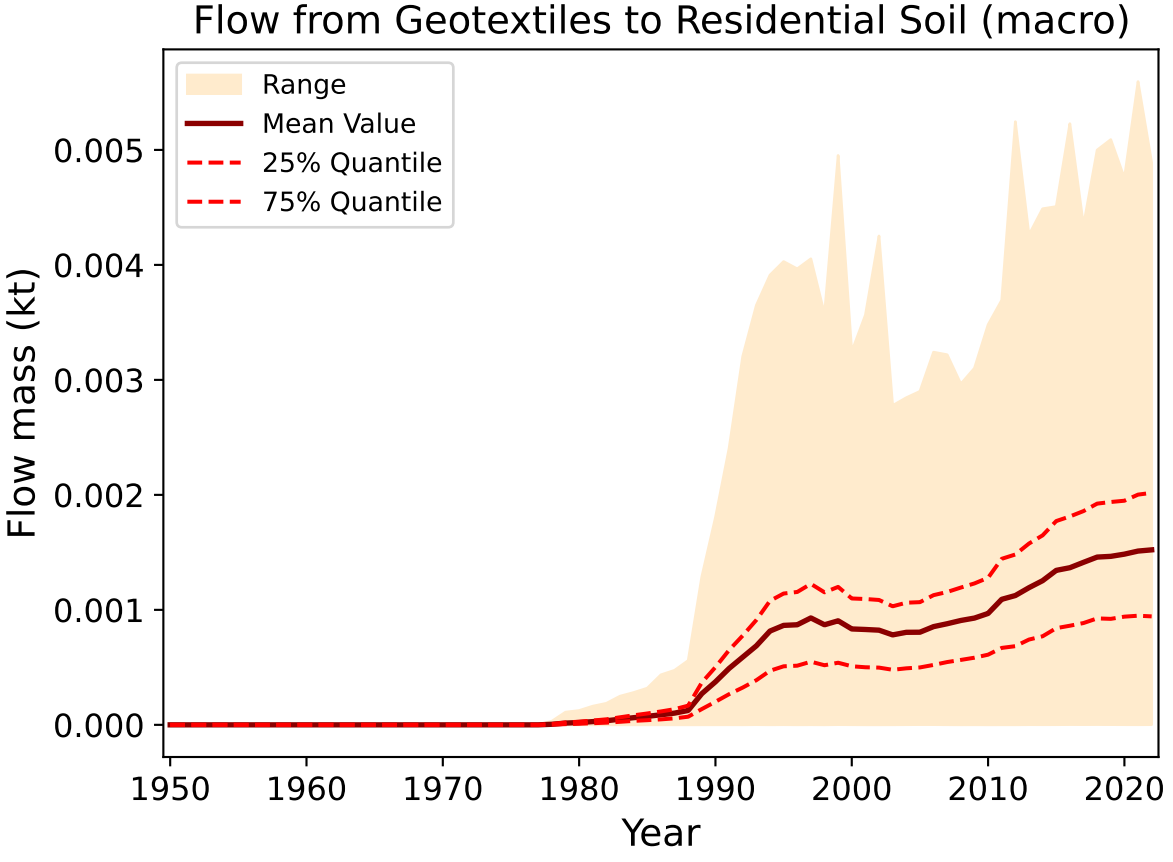

Flow from Agrotextiles to Dumping
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0014
0.0012
0.0010
0.0008
0.0006
0.0004
0.0002
0.0000
1950
1960
1970
1980
1990
2000
2010
2020
Year

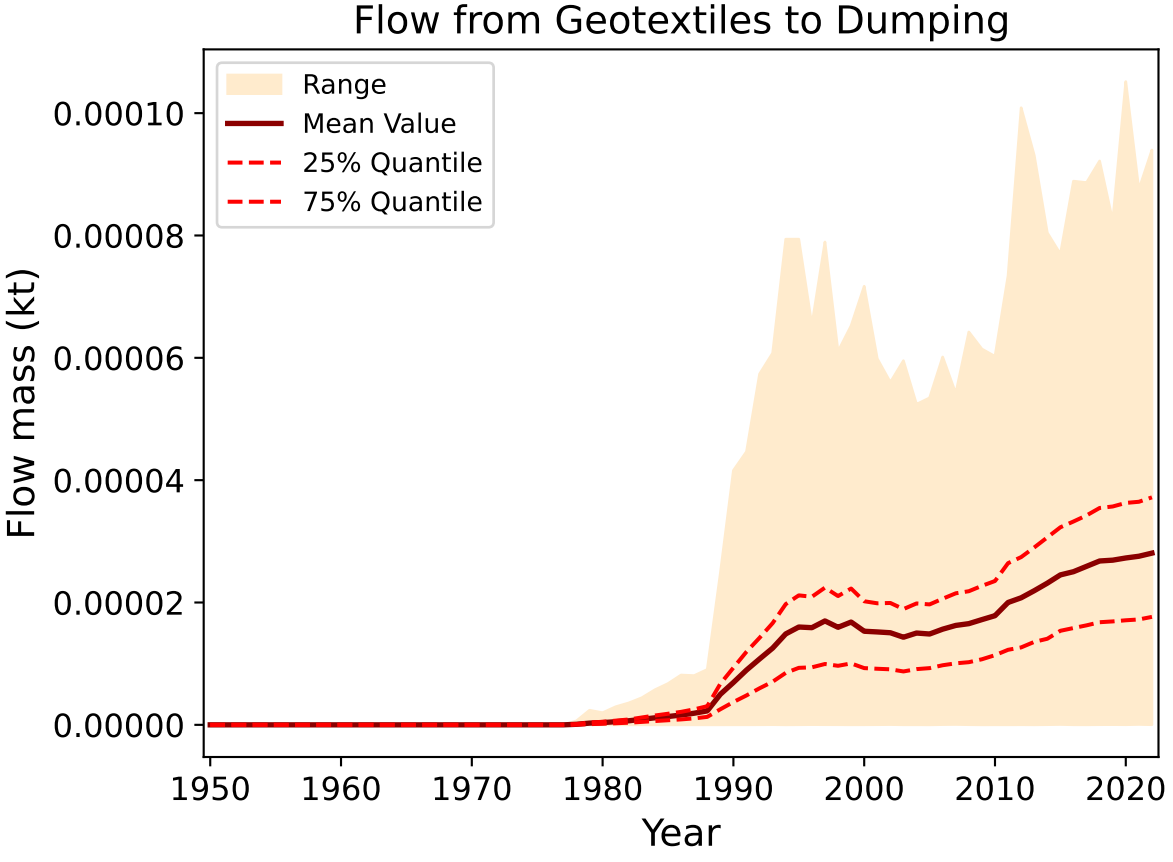

Flow from Agrotextiles to Agriculture Waste Collection
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
1950
1960
1970
1980
1990
2000
2010
2020
Year

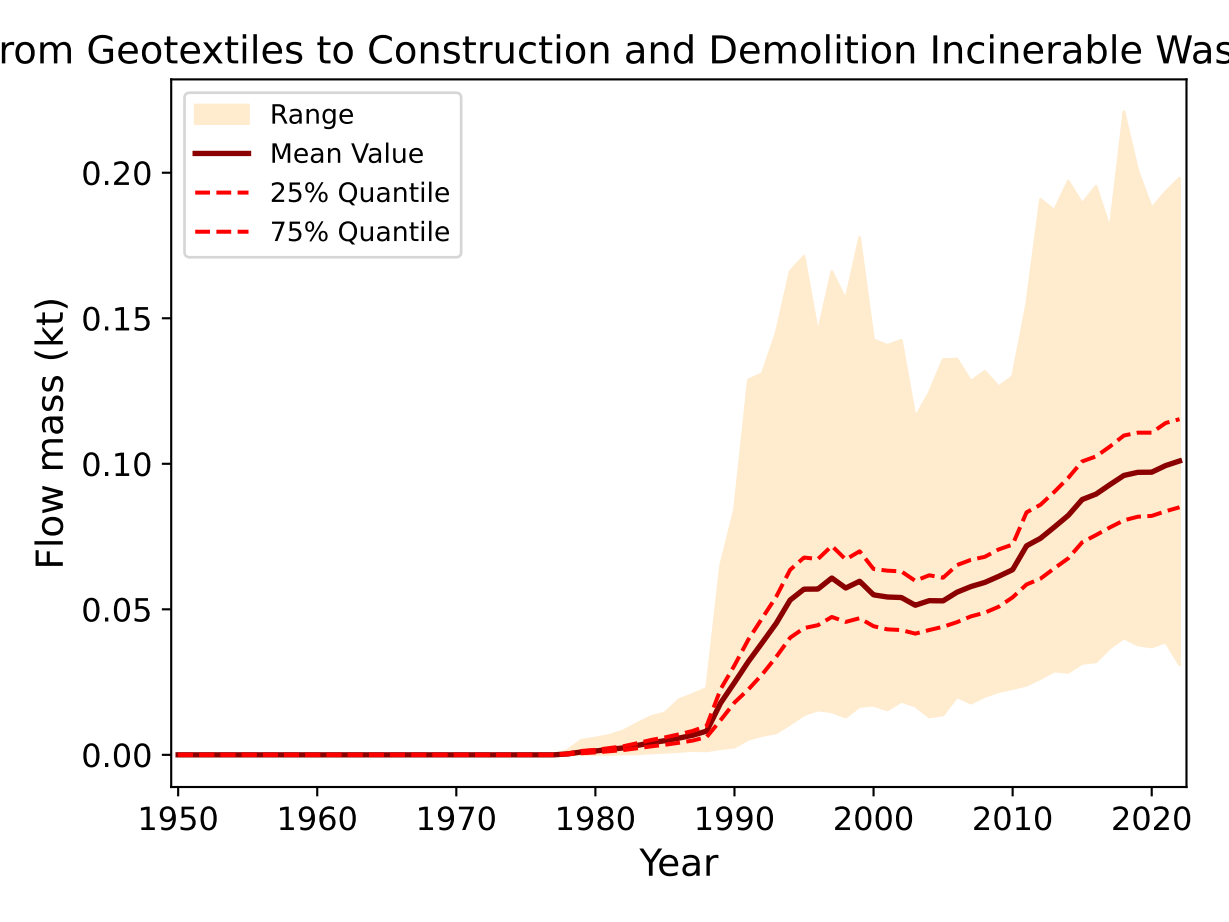

Flow from Mobility Textiles to Export
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
2.00
1.75
1.50
1.25
1.00
0.75
0.50
0.25
0.00
1950
1960
1970
1980
1990
2000
2010
2020
Year

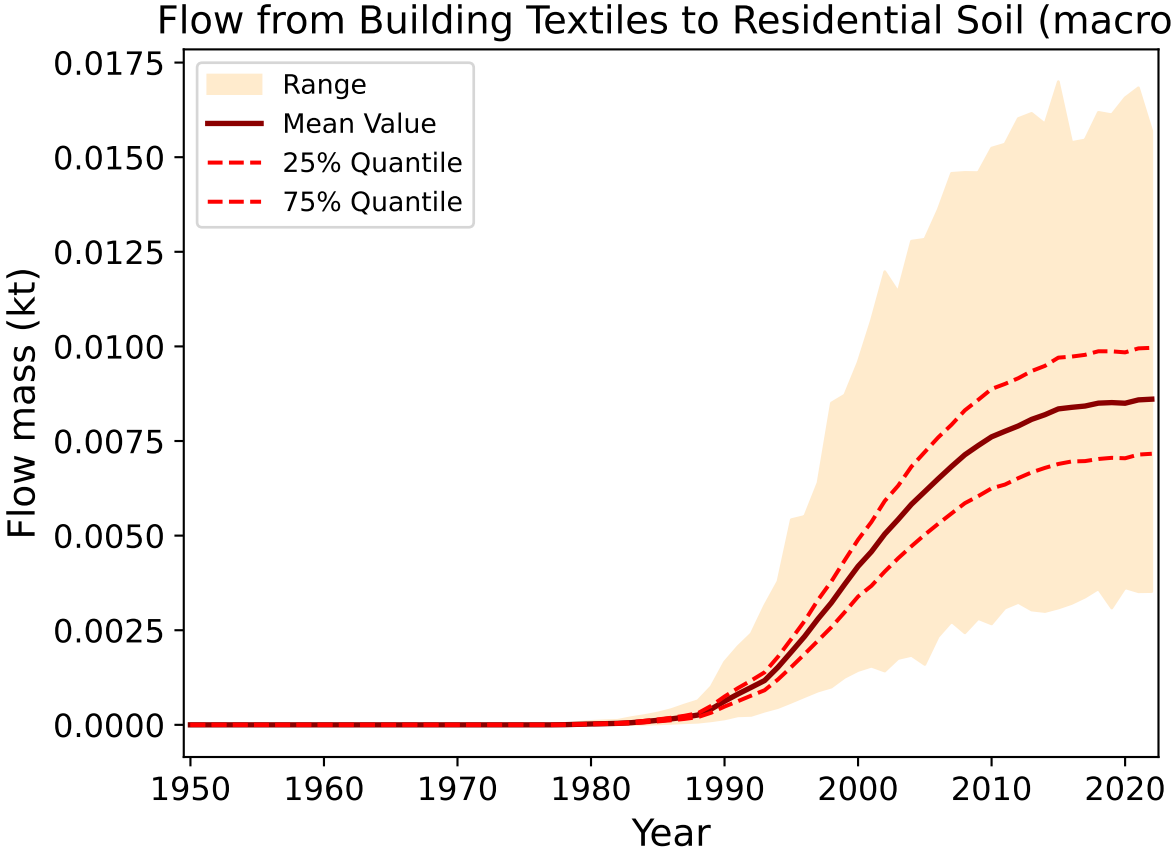

Flow from Mobility Textiles to End-Of-Life Vehicle Textiles Colle
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
1.75
1.50
1.25
1.00
0.75
0.50
0.25
0.00
1950
1960
1970
1980
1990
2000
2010
2020
Year

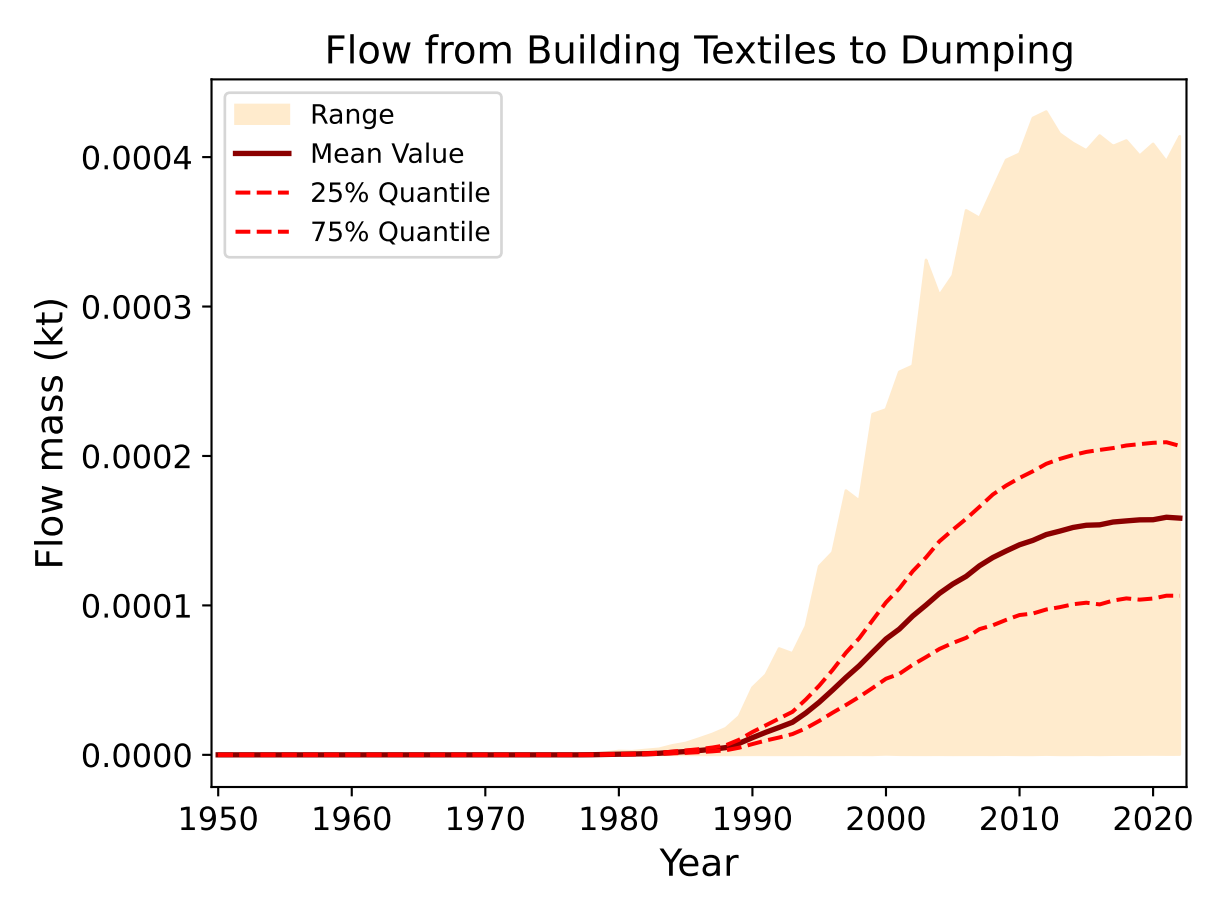

Flow from Geotextiles to Sub-surface (micro)
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.000
0.001
0.002
0.003
0.004
1950
1960
1970
1980
1990
2000
2010
2020
Year

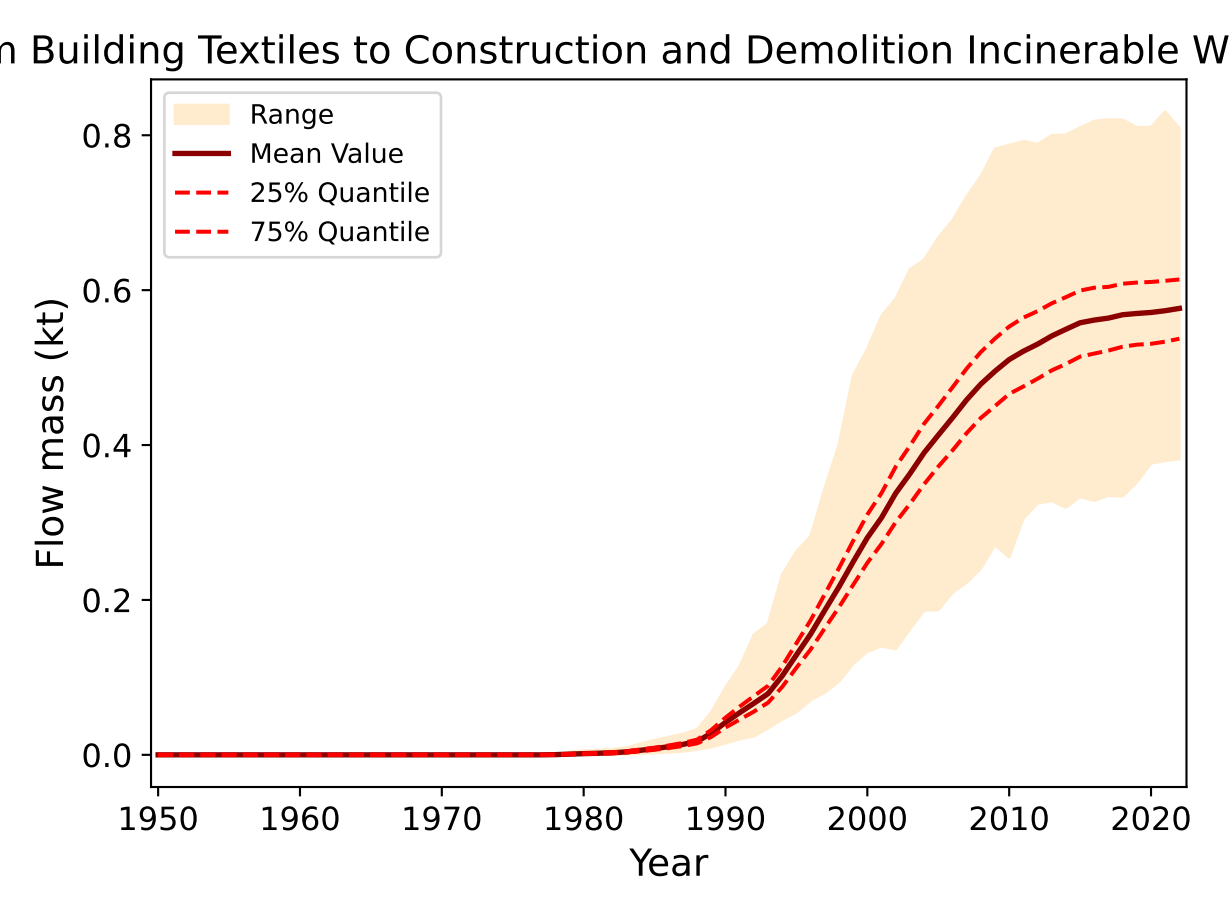

Flow from Geotextiles to Residential Soil (macro)
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.000
0.001
0.002
0.003
0.004
0.005
1950
1960
1970
1980
1990
2000
2010
2020
Year

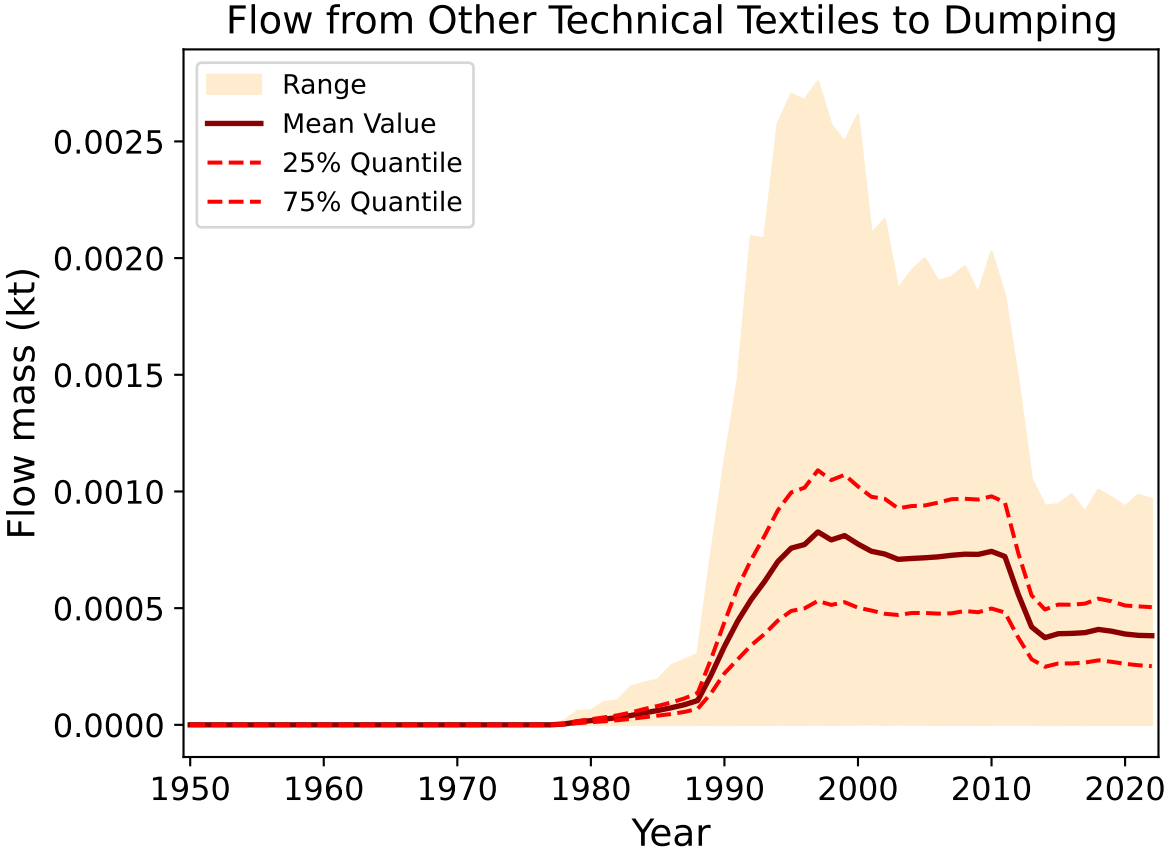

Flow from Geotextiles to Dumping
Range
Mean Value
25% Quantile
75% Quantile
0.00010
0.00008
0.00006
0.00004
0.00002
0.00000
Flow mass (kt)
1950
1960
1970
1980
1990
2000
2010
2020
Year

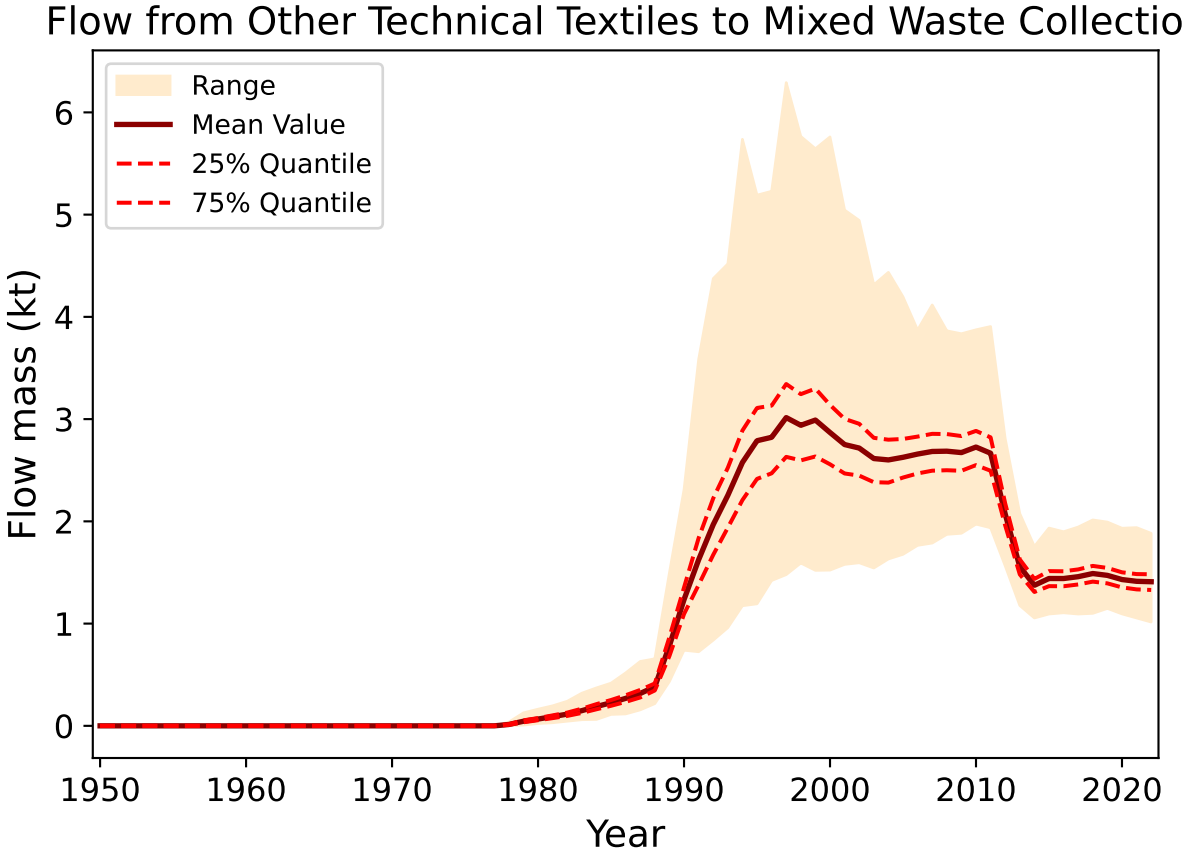

rom Geotextiles to Construction and Demolition Incinerable Was
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.00
0.05
0.10
0.15
0.20
1950
1960
1970
1980
1990
2000
2010
2020
Year

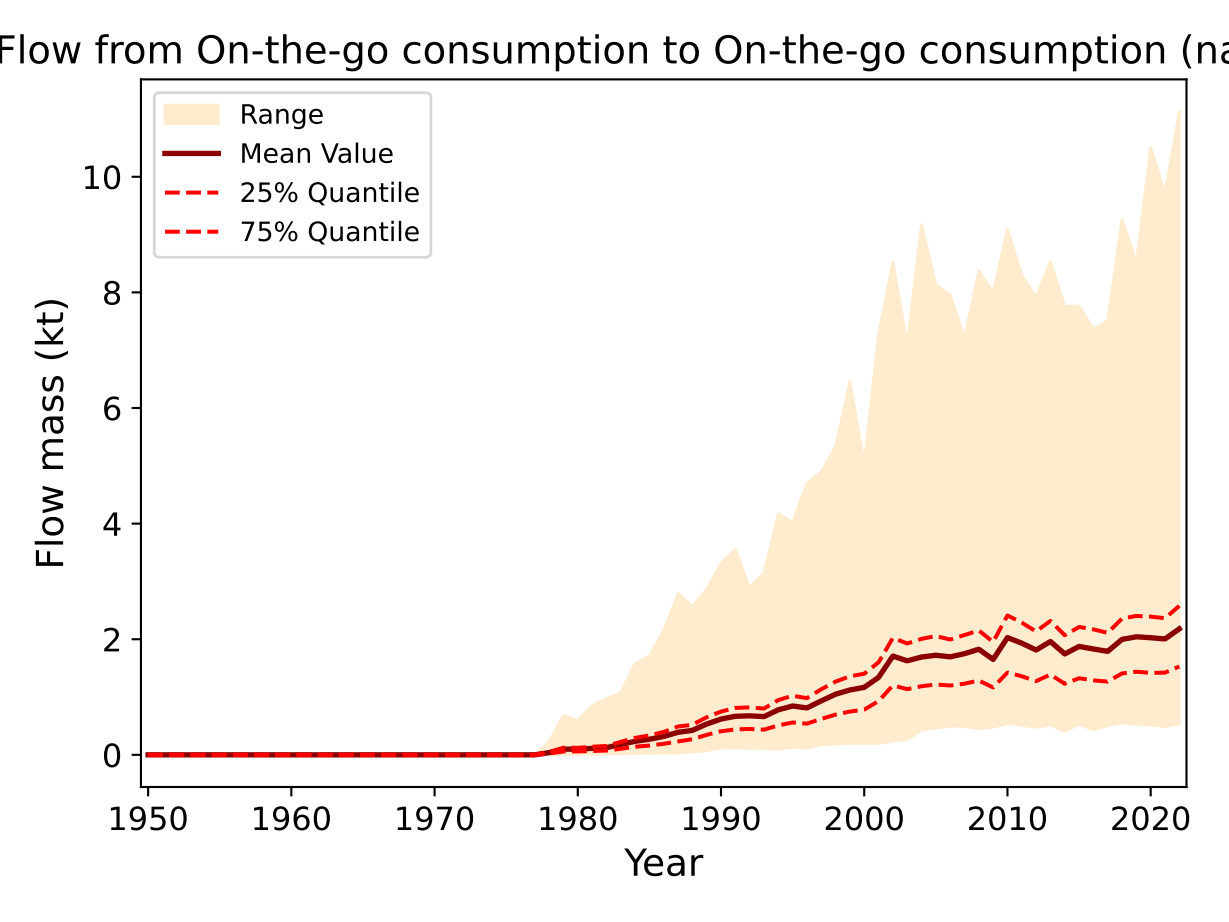

Flow from Building Textiles to Residential Soil (macro)
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0.0000
1950
1960
1970
1980
1990
2000
2010
2020
Year

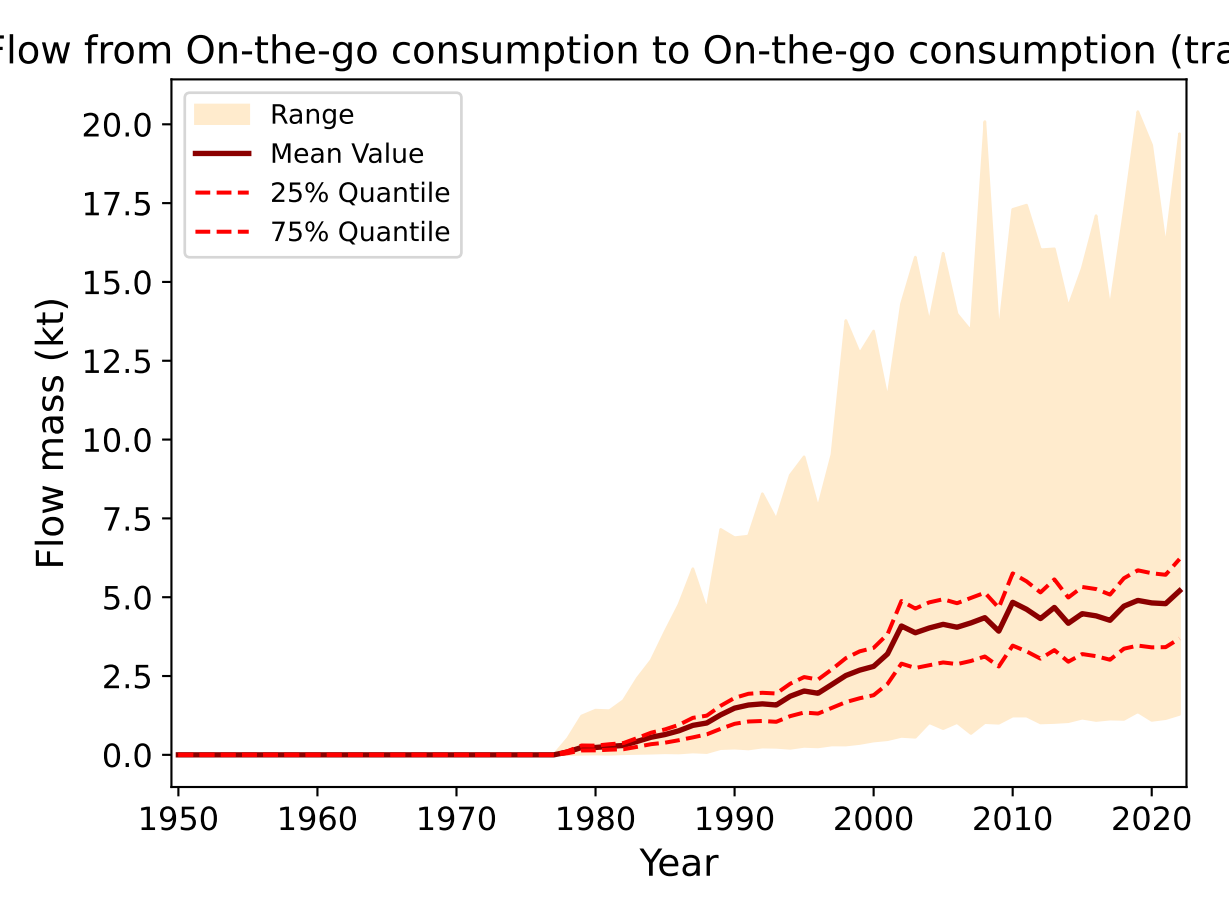

Flow from Building Textiles to Dumping
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0000
0.0001
0.0002
0.0003
0.0004
1950
1960
1970
1980
1990
2000
2010
2020
Year

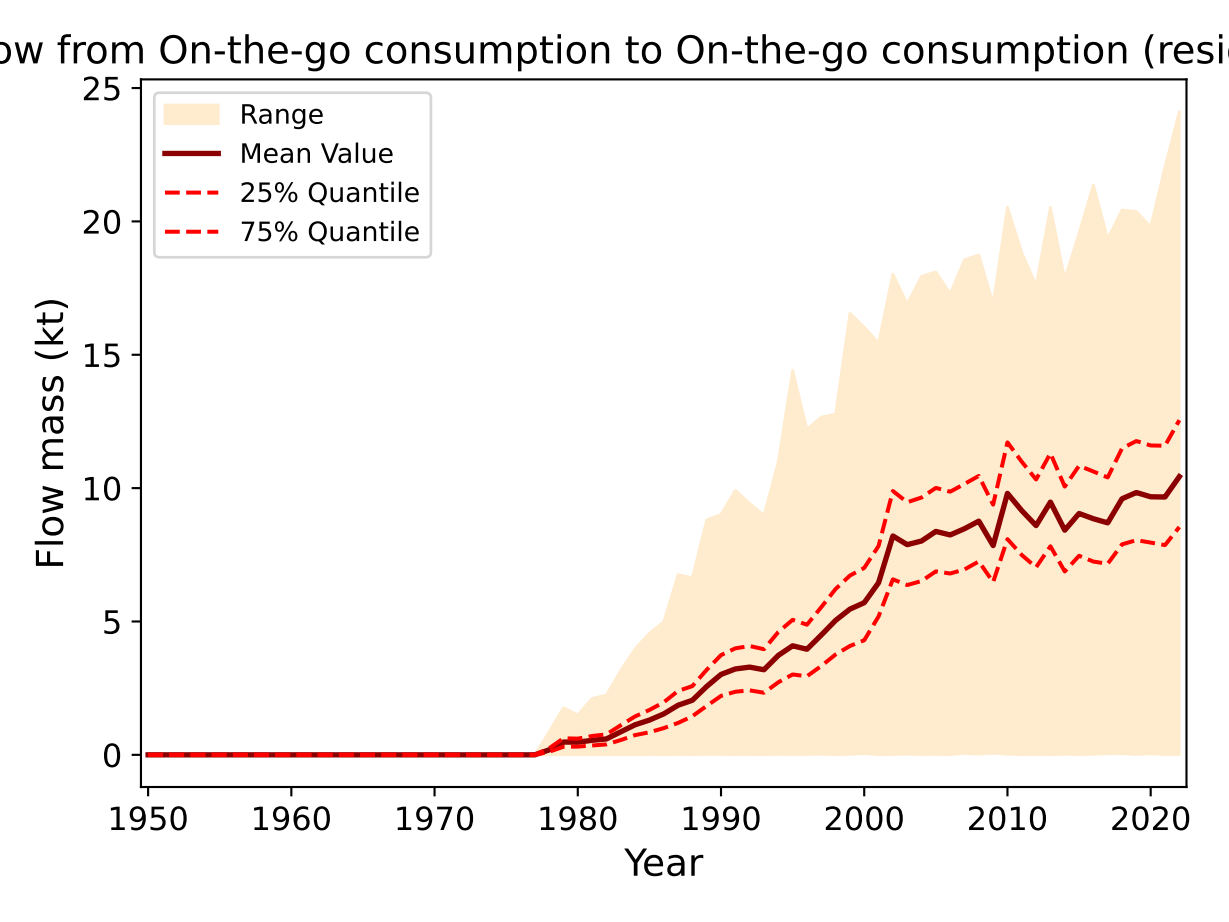

n Building Textiles to Construction and Demolition Incinerable W
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0
0.2
0.4
0.6
0.8
1950
1960
1970
1980
1990
2000
2010
2020
Year

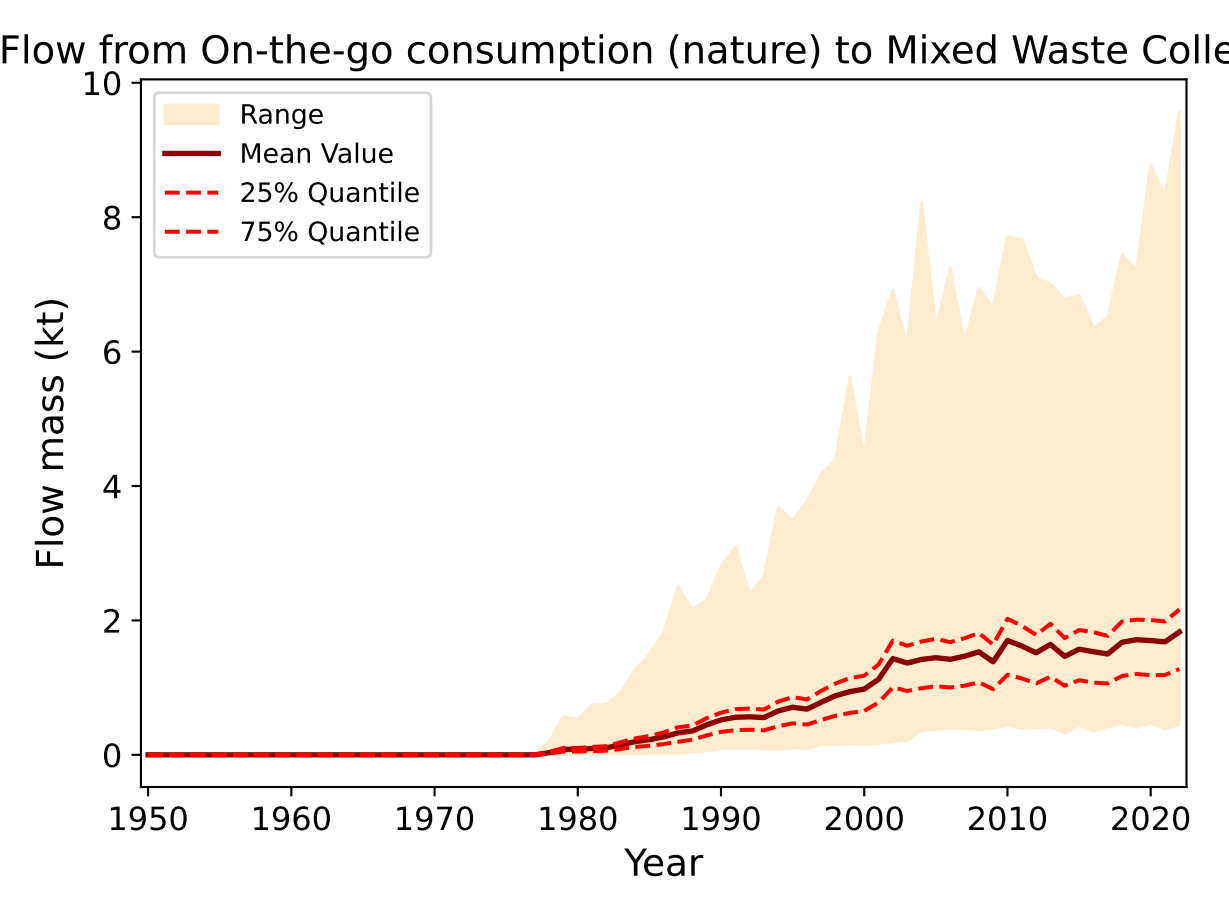

Flow from Other Technical Textiles to Dumping
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
1950
1960
1970
1980
1990
2000
2010
2020
Year

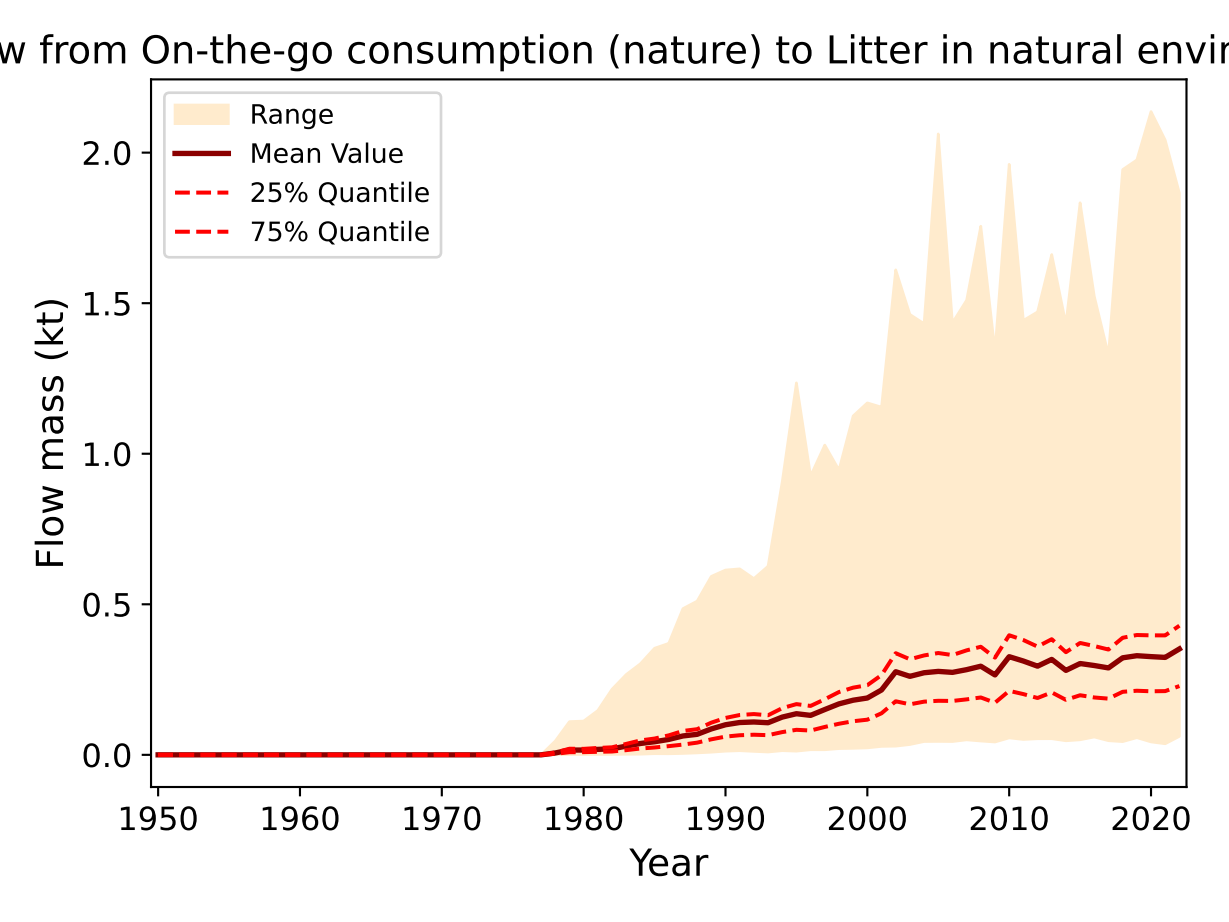

Flow from Other Technical Textiles to Mixed Waste Collection
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
1
2
3
4
5
6
1950
1960
1970
1980
1990
2000
2010
2020
Year

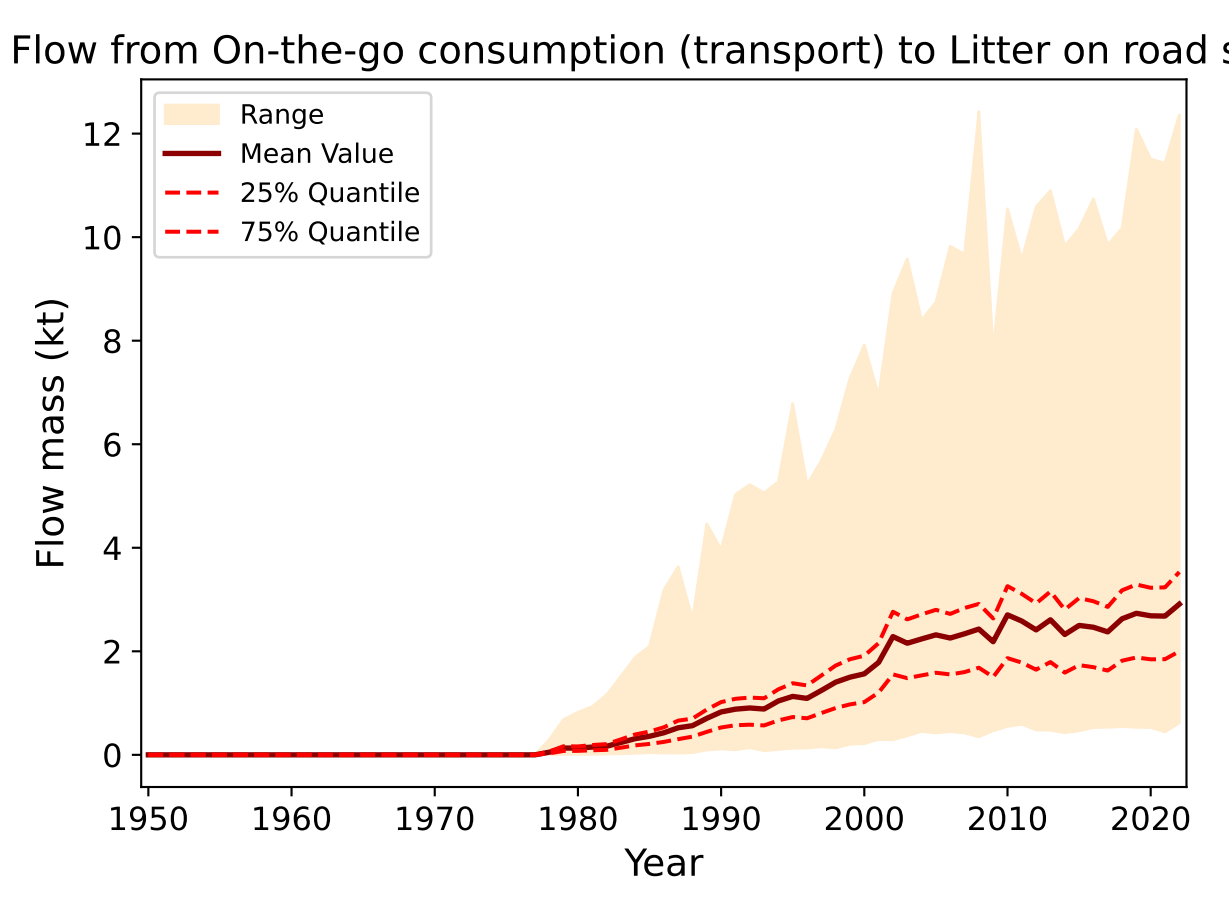

Flow from On-the-go consumption to On-the-go consumption (na
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
2
4
6
8
10
1950
1960
1970
1980
1990
2000
2010
2020
Year

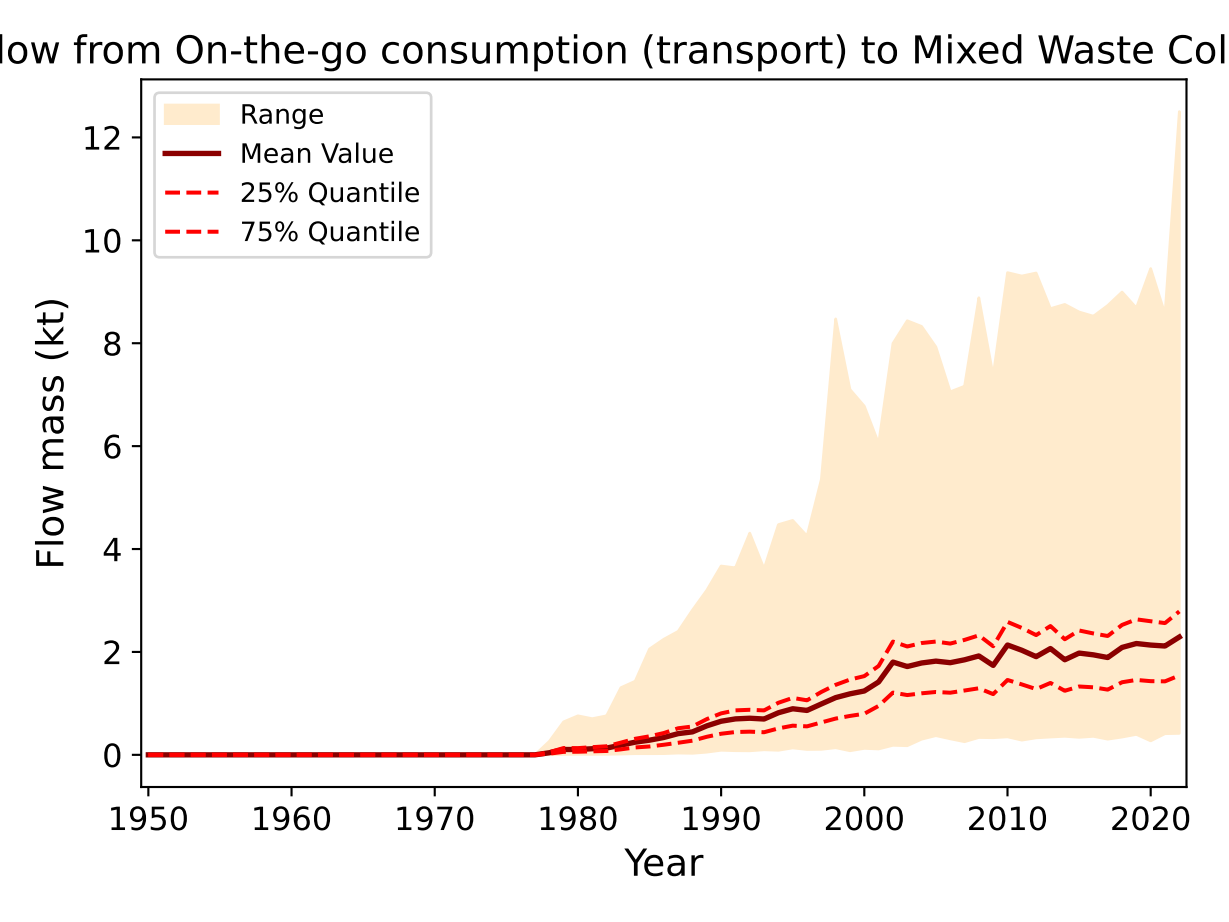

Flow from On-the-go consumption to On-the-go consumption (tra
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0.0
1950
1960
1970
1980
1990
2000
2010
2020
Year

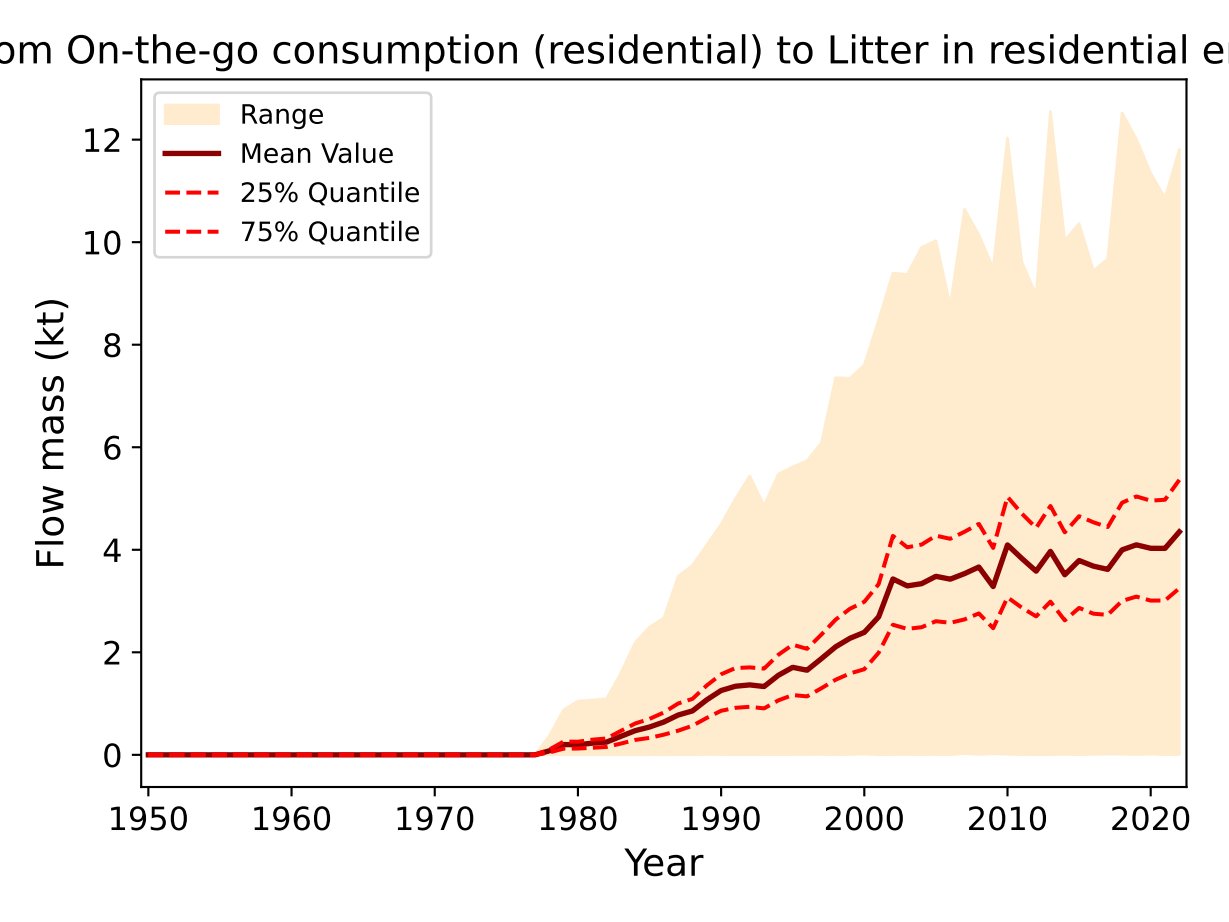

ow from On-the-go consumption to On-the-go consumption (resi
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
25
20
15
10
5
0
1950
1960
1970
1980
1990
2000
2010
2020
Year

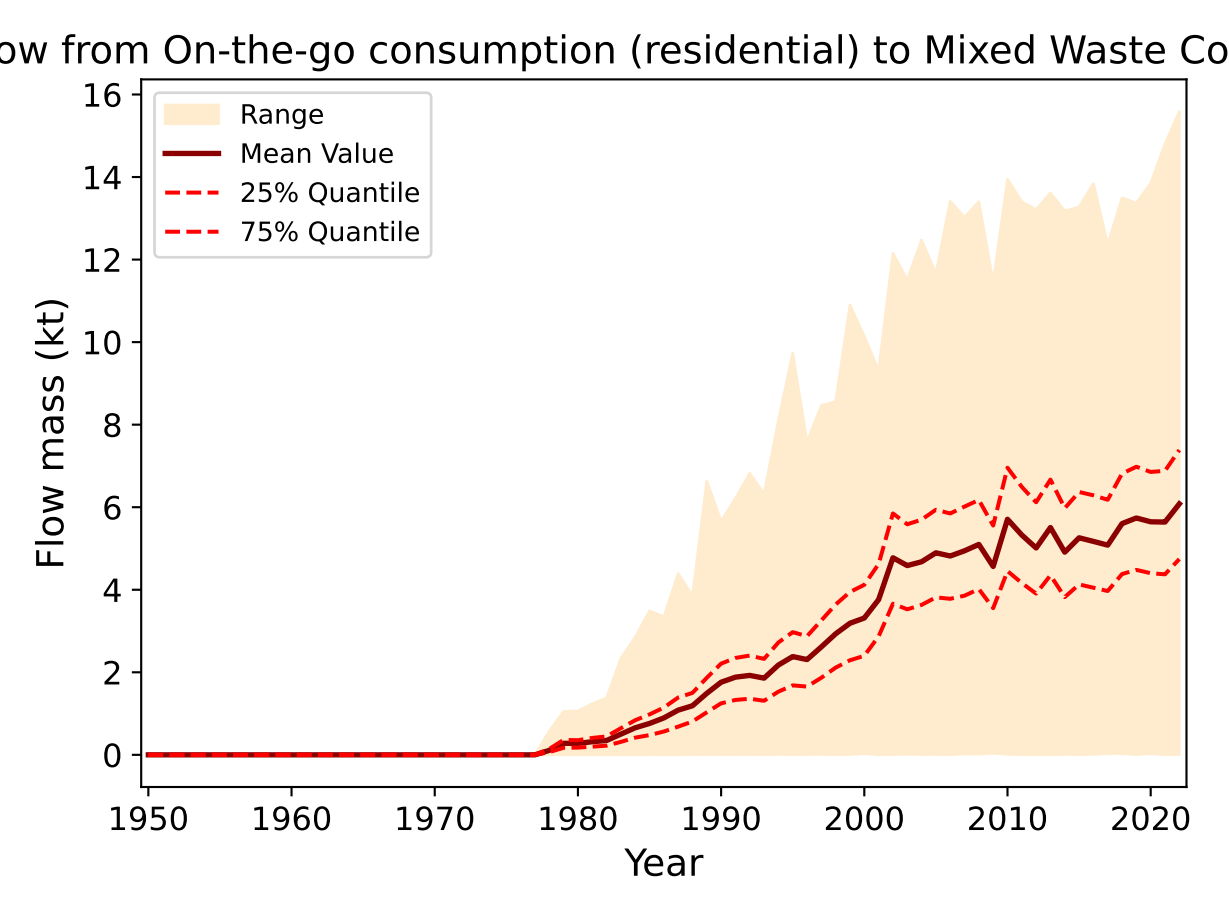

Flow from On-the-go consumption (nature) to Mixed Waste Colle
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
2
4
6
8
10
1950
1960
1970
1980
1990
2000
2010
2020
Year

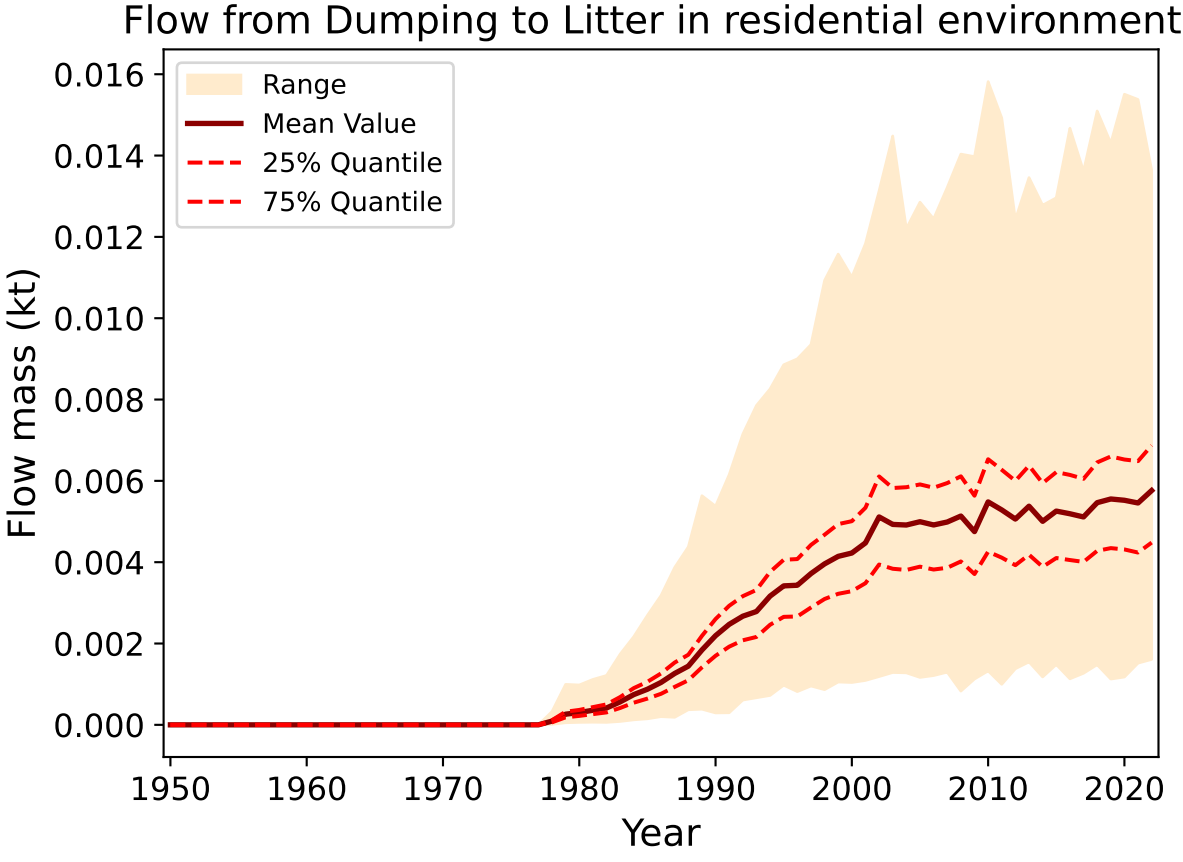

w from On-the-go consumption (nature) to Litter in natural envir
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
2.0
1.5
1.0
0.5
0.0
1950
1960
1970
1980
1990
2000
2010
2020
Year

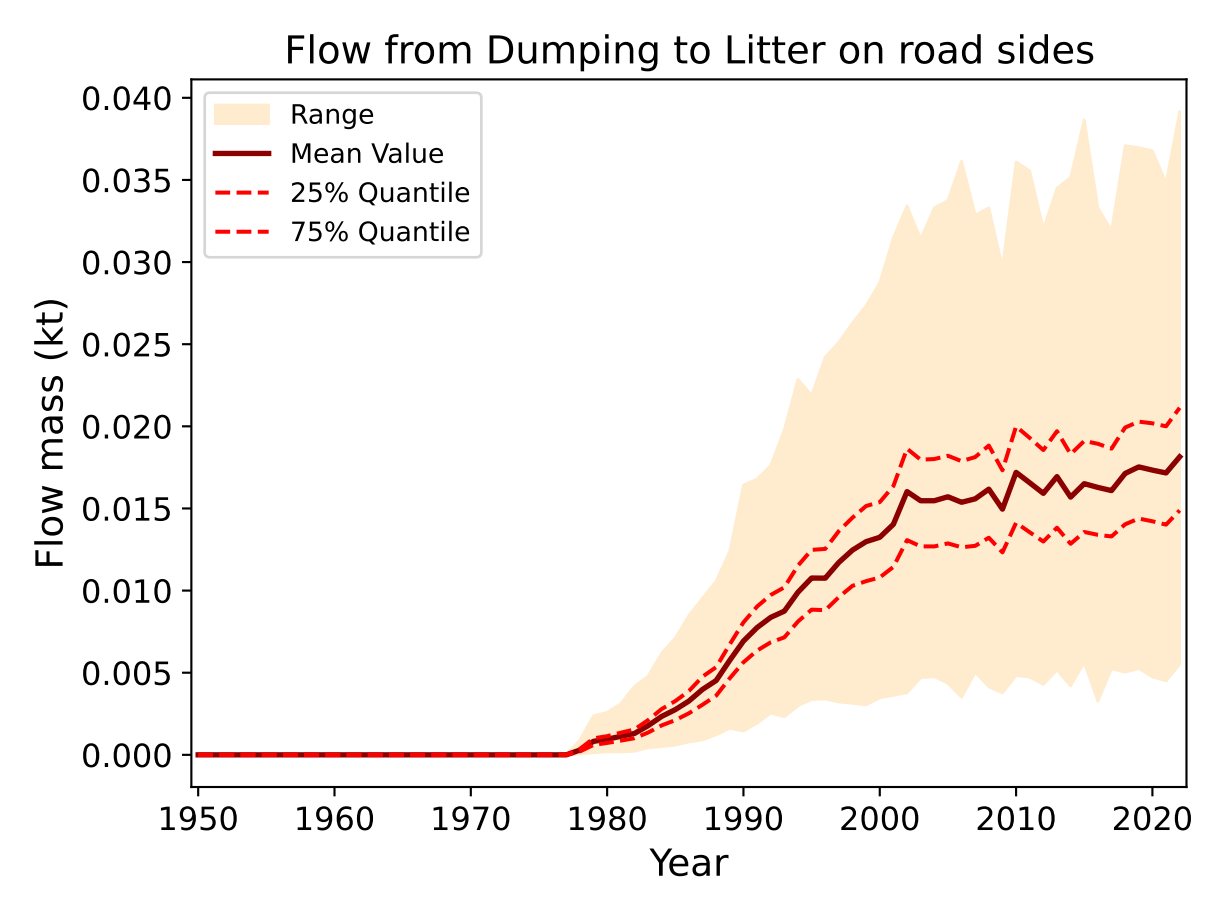

Flow from On-the-go consumption (transport) to Litter on road s
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
2
4
6
8
10
12
1950
1960
1970
1980
1990
2000
2010
2020
Year

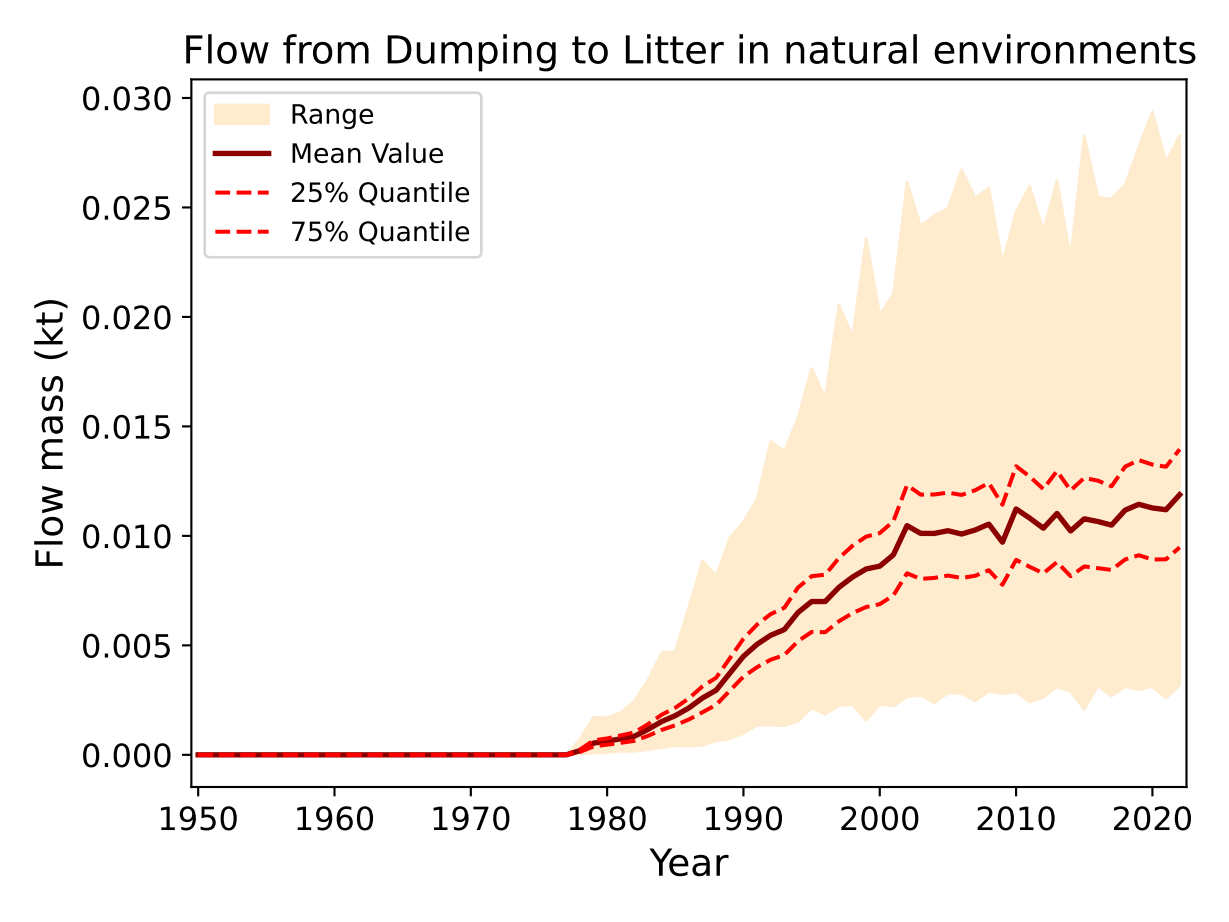

low from On-the-go consumption (transport) to Mixed Waste Col
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
2
4
6
8
10
12
1950
1960
1970
1980
1990
2000
2010
2020
Year

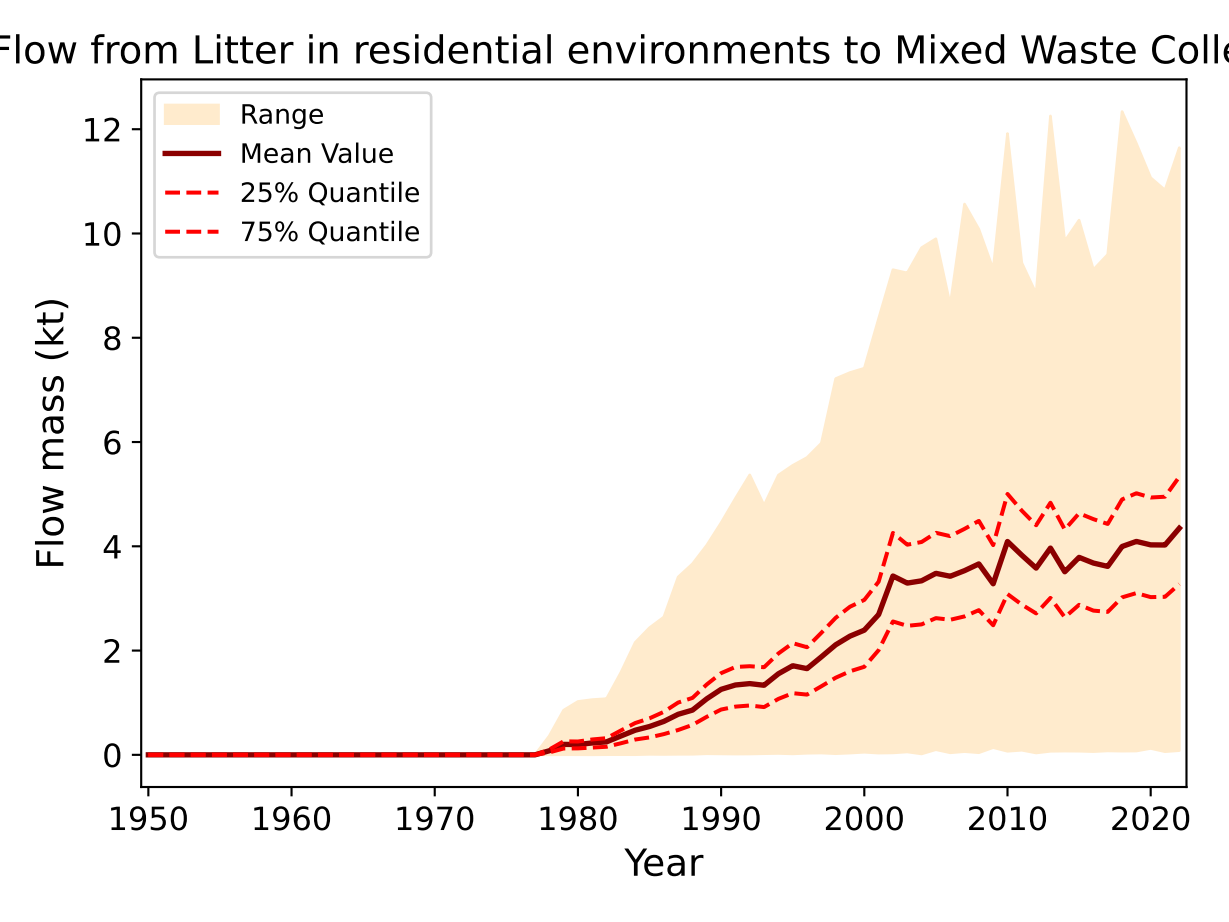

om On-the-go consumption (residential) to Litter in residential e
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
2
4
6
8
10
12
1950
1960
1970
1980
1990
2000
2010
2020
Year

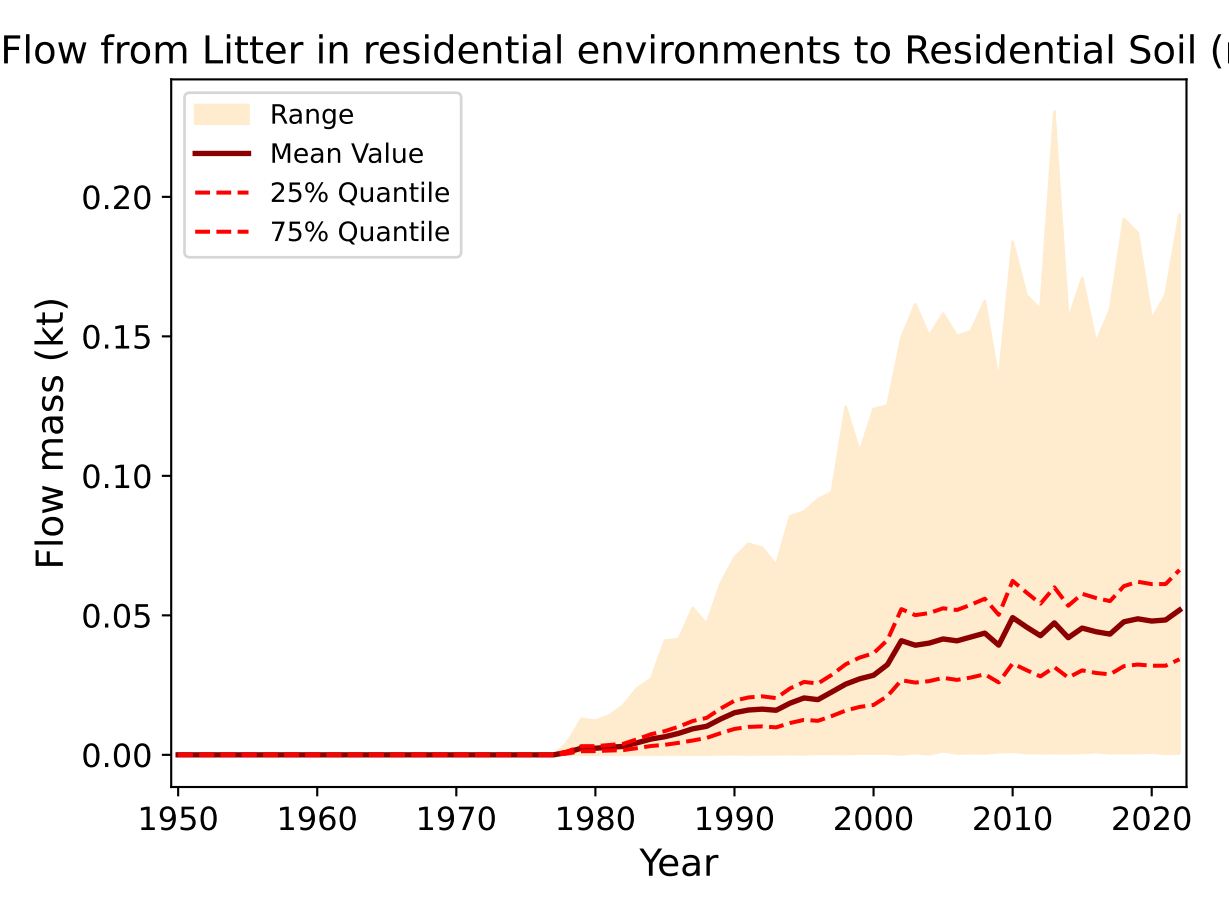

ow from On-the-go consumption (residential) to Mixed Waste Co
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
2
4
6
8
10
12
14
16
1950
1960
1970
1980
1990
2000
2010
2020
Year

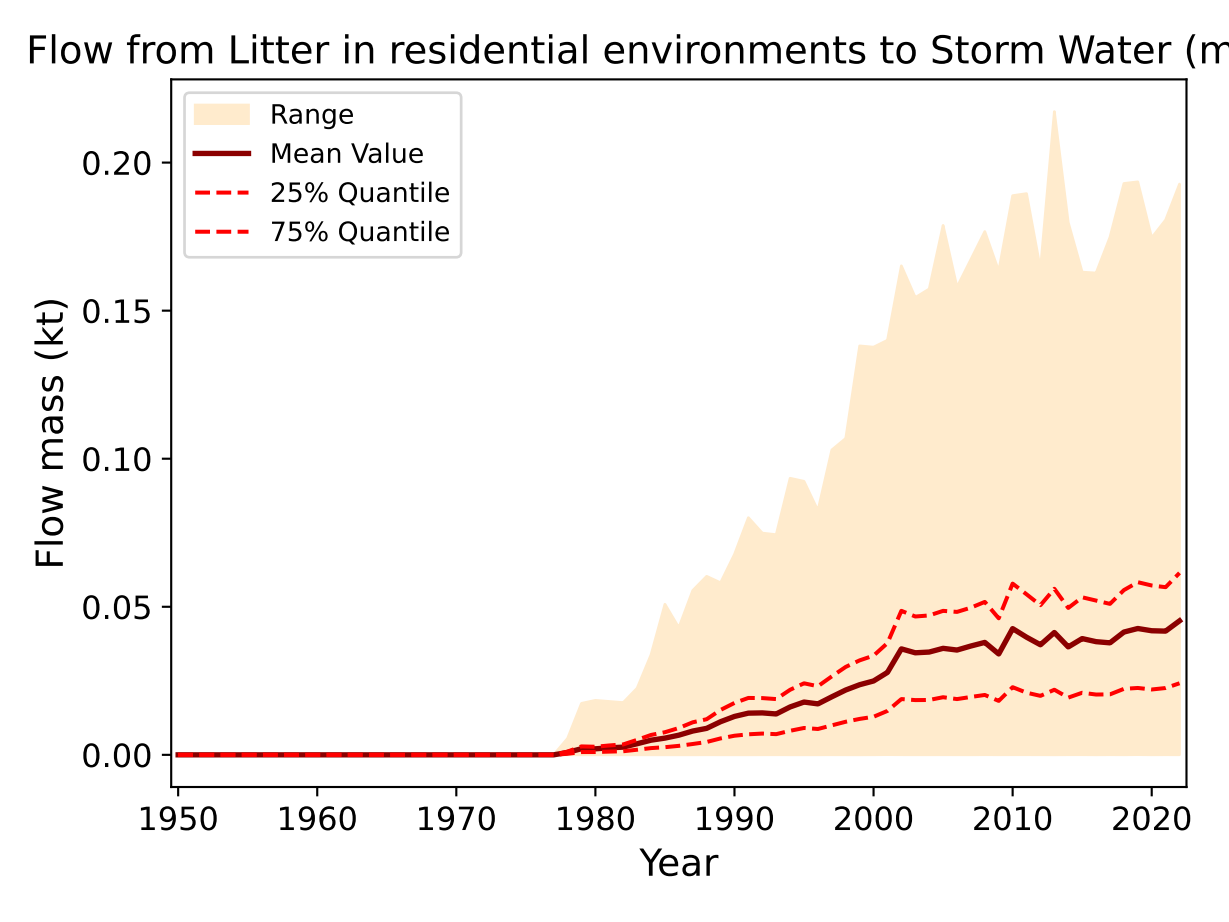

Flow from Dumping to Litter in residential environments
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.016
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
1950
1960
1970
1980
1990
2000
2010
2020
Year

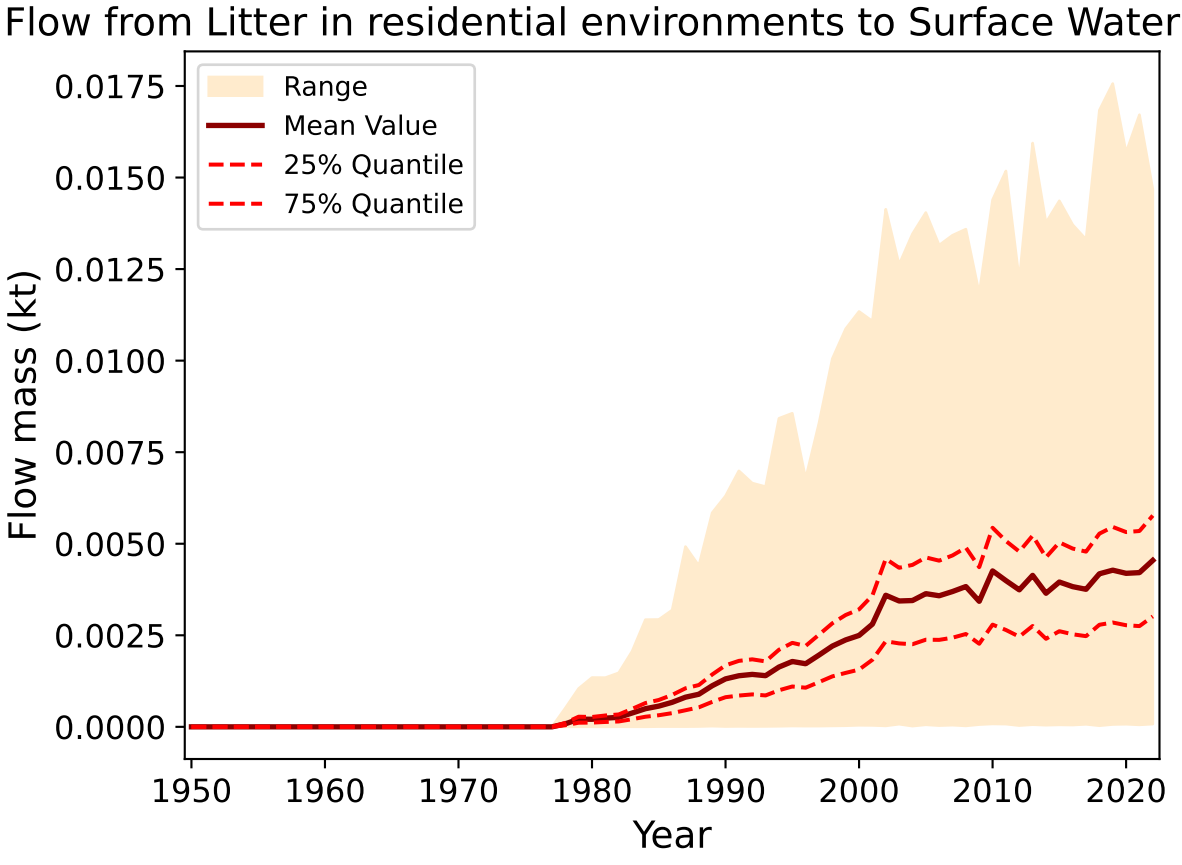

Flow from Dumping to Litter on road sides
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.040
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
1950
1960
1970
1980
1990
2000
2010
2020
Year

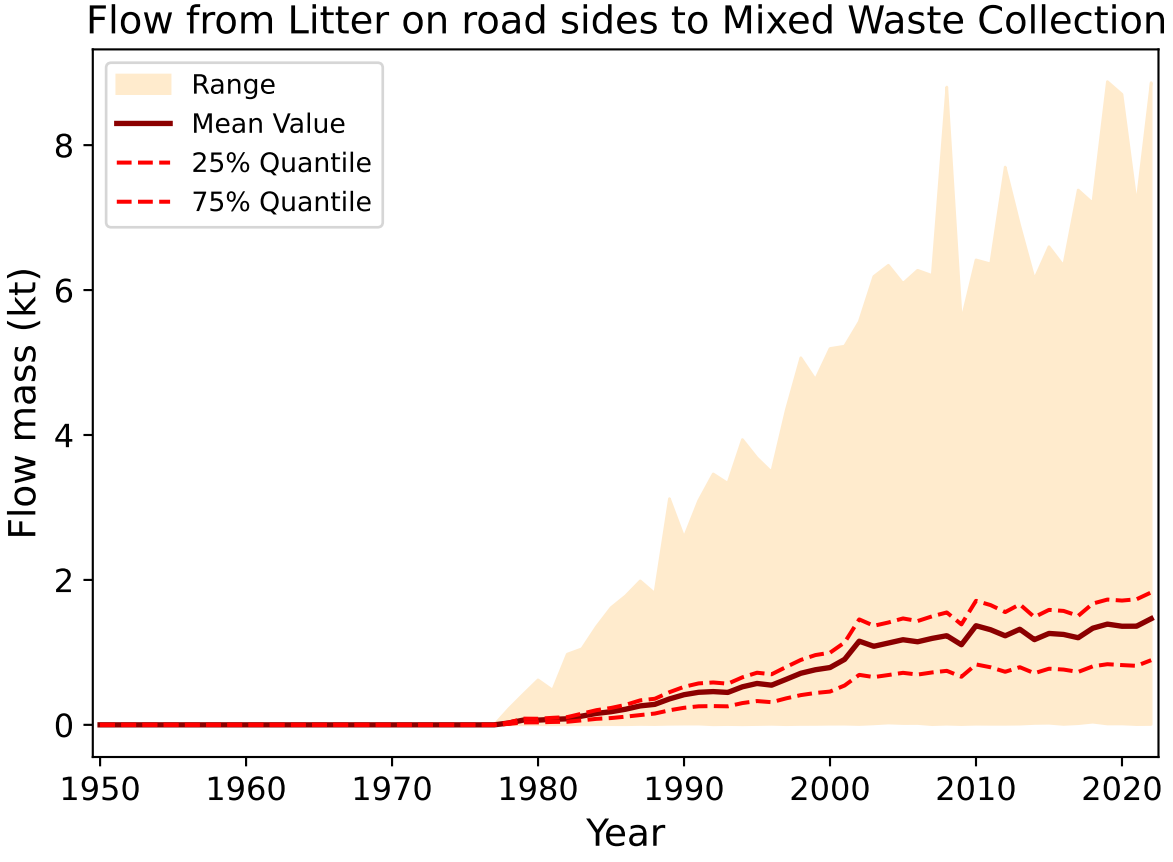

Flow from Dumping to Litter in natural environments
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.030
0.025
0.020
0.015
0.010
0.005
0.000
1950
1960
1970
1980
1990
2000
2010
2020
Year

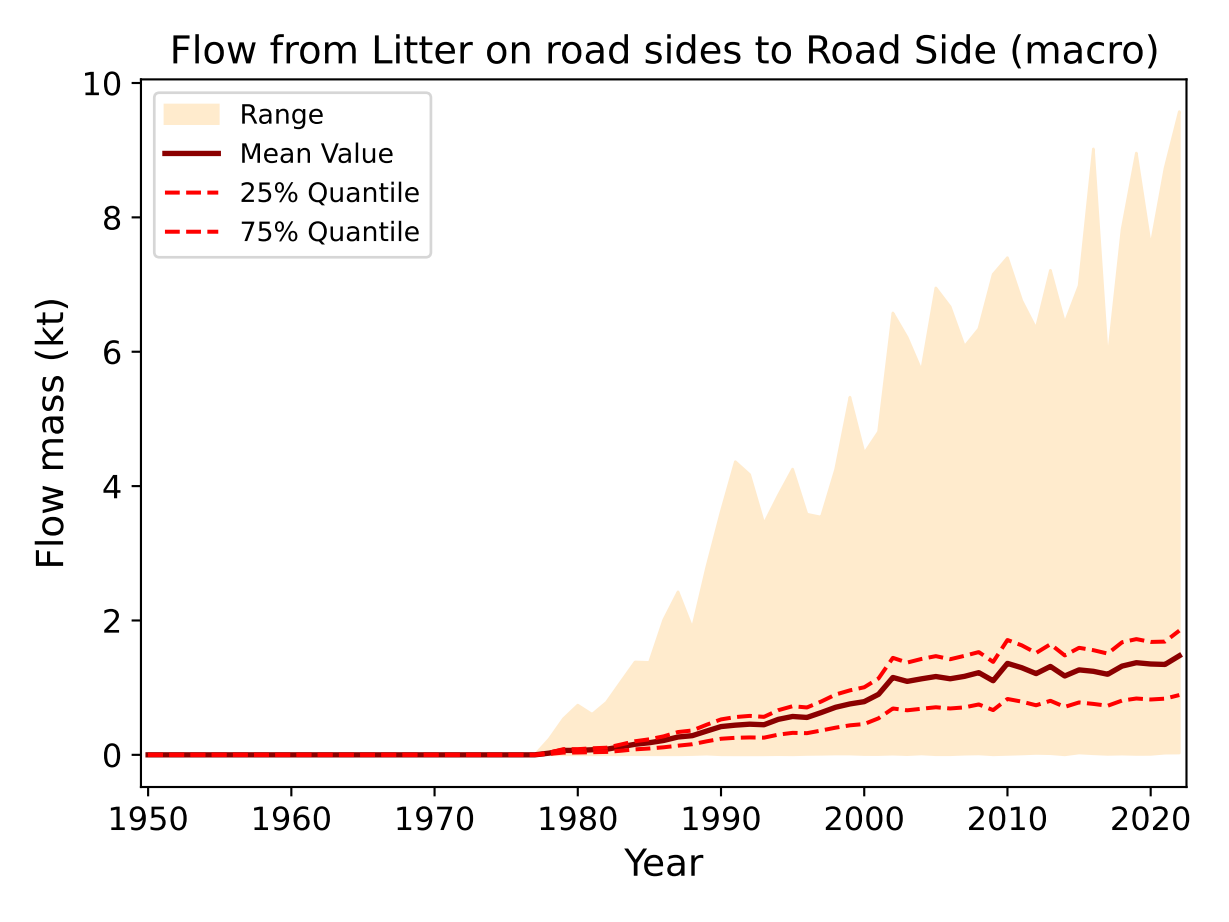

Flow from Litter in residential environments to Mixed Waste Colle
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
2
4
6
8
10
12
1950
1960
1970
1980
1990
2000
2010
2020
Year

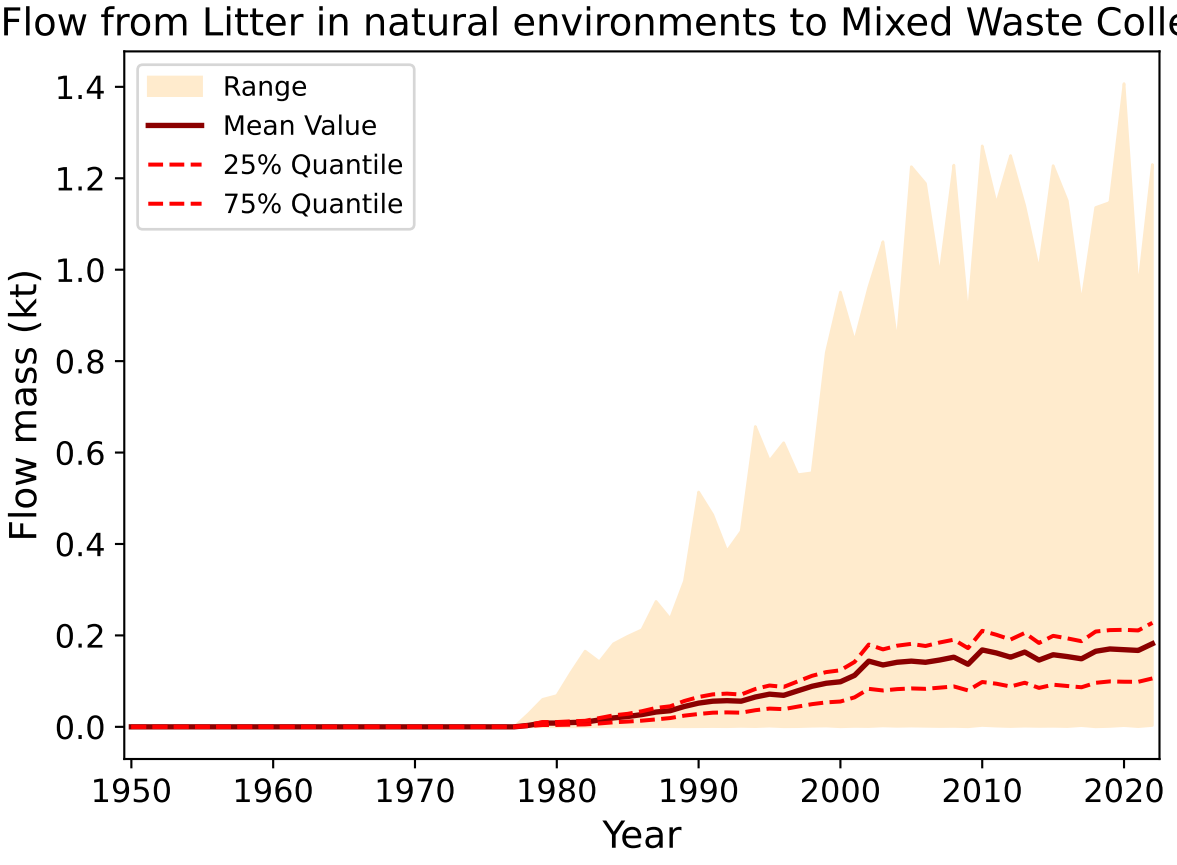

Flow from Litter in residential environments to Residential Soil (
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.00
0.05
0.10
0.15
0.20
1950
1960
1970
1980
1990
2000
2010
2020
Year

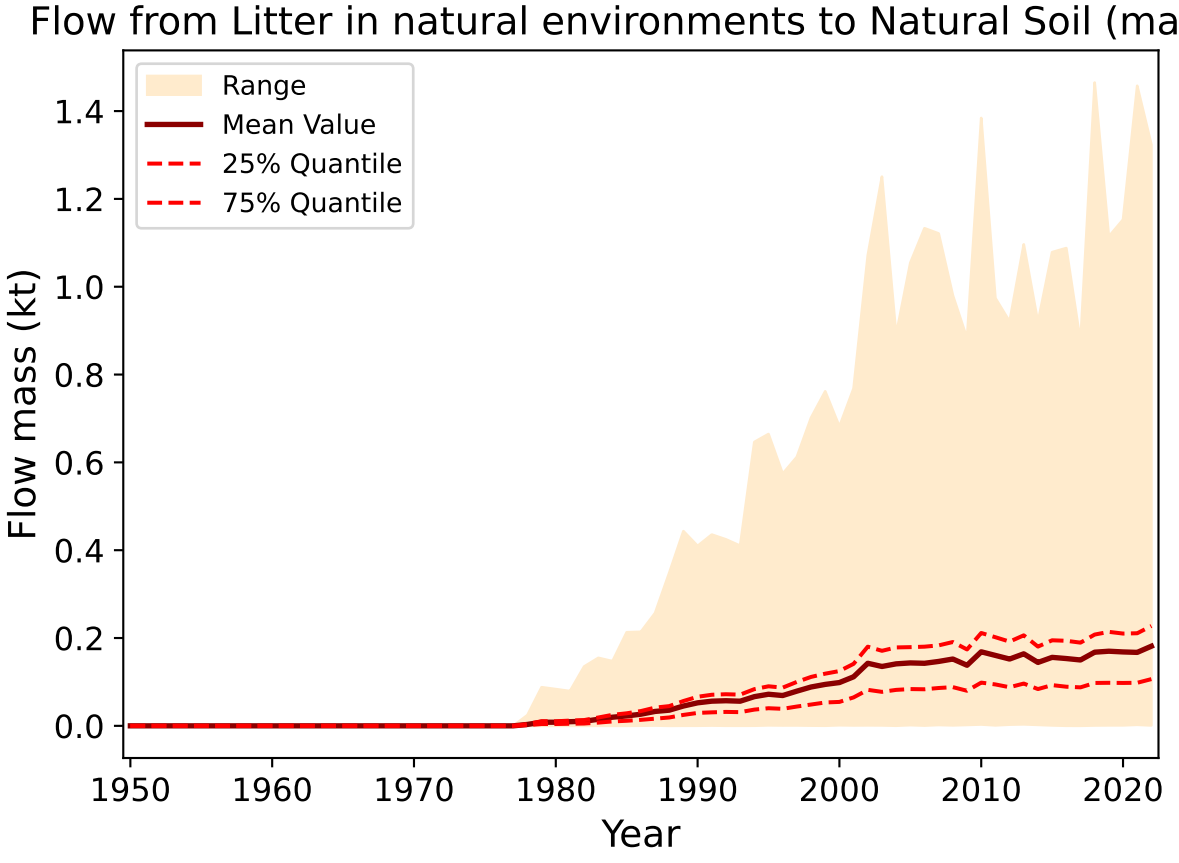

Flow from Litter in residential environments to Storm Water (m
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.00
0.05
0.10
0.15
0.20
1950
1960
1970
1980
1990
2000
2010
2020
Year

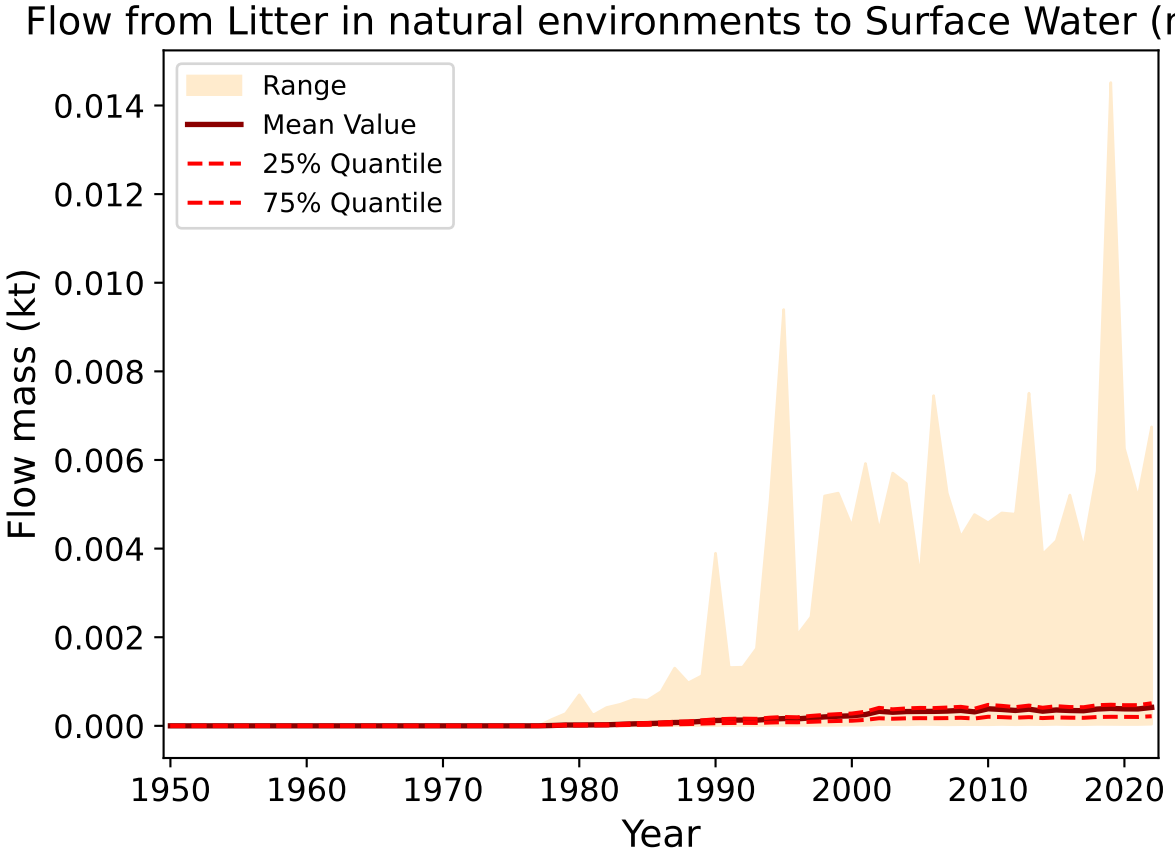

Flow from Litter in residential environments to Surface Water (
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0.0000
1950
1960
1970
1980
1990
2000
2010
2020
Year

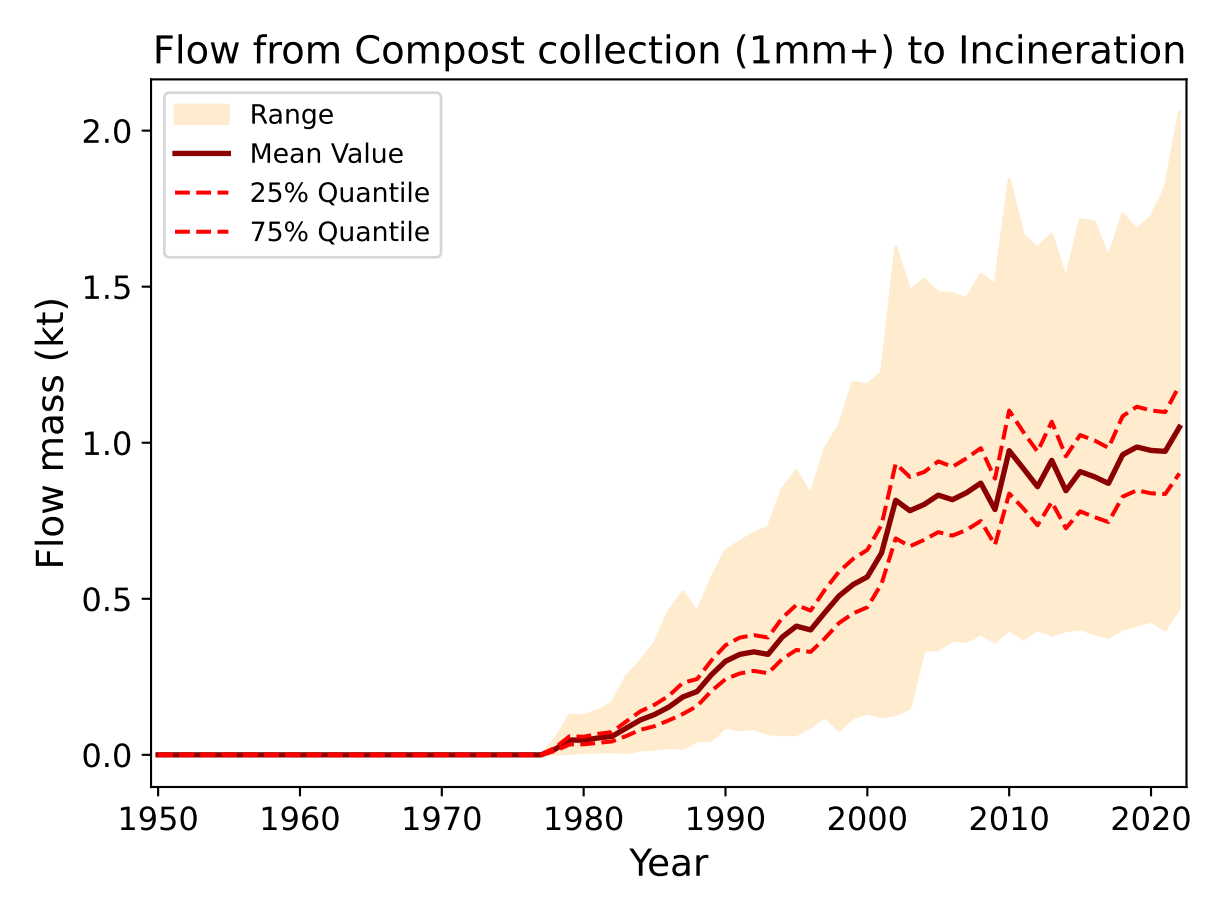

Flow from Litter on road sides to Mixed Waste Collection
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
2
4
6
8
1950
1960
1970
1980
1990
2000
2010
2020
Year

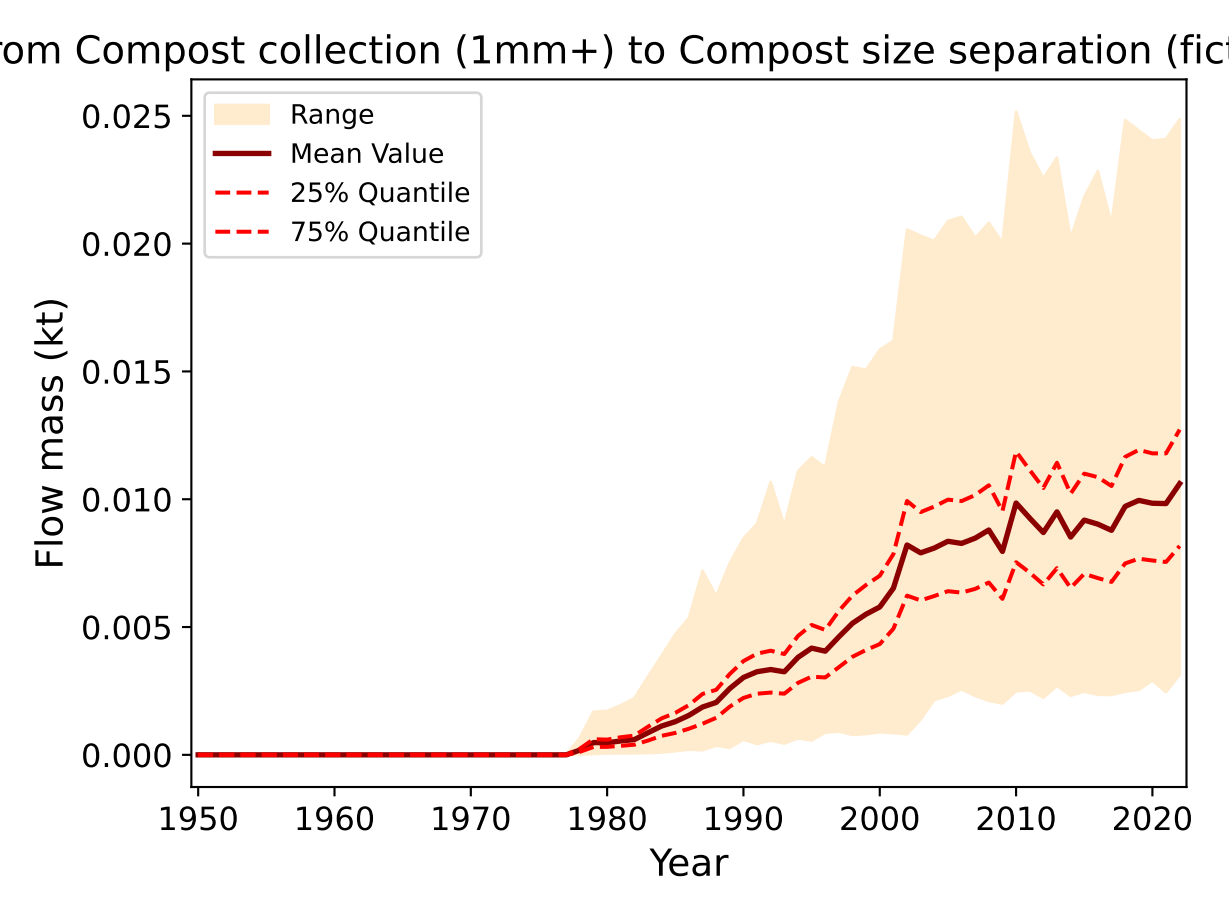

Flow from Litter on road sides to Road Side (macro)
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
2
4
6
8
10
1950
1960
1970
1980
1990
2000
2010
2020
Year

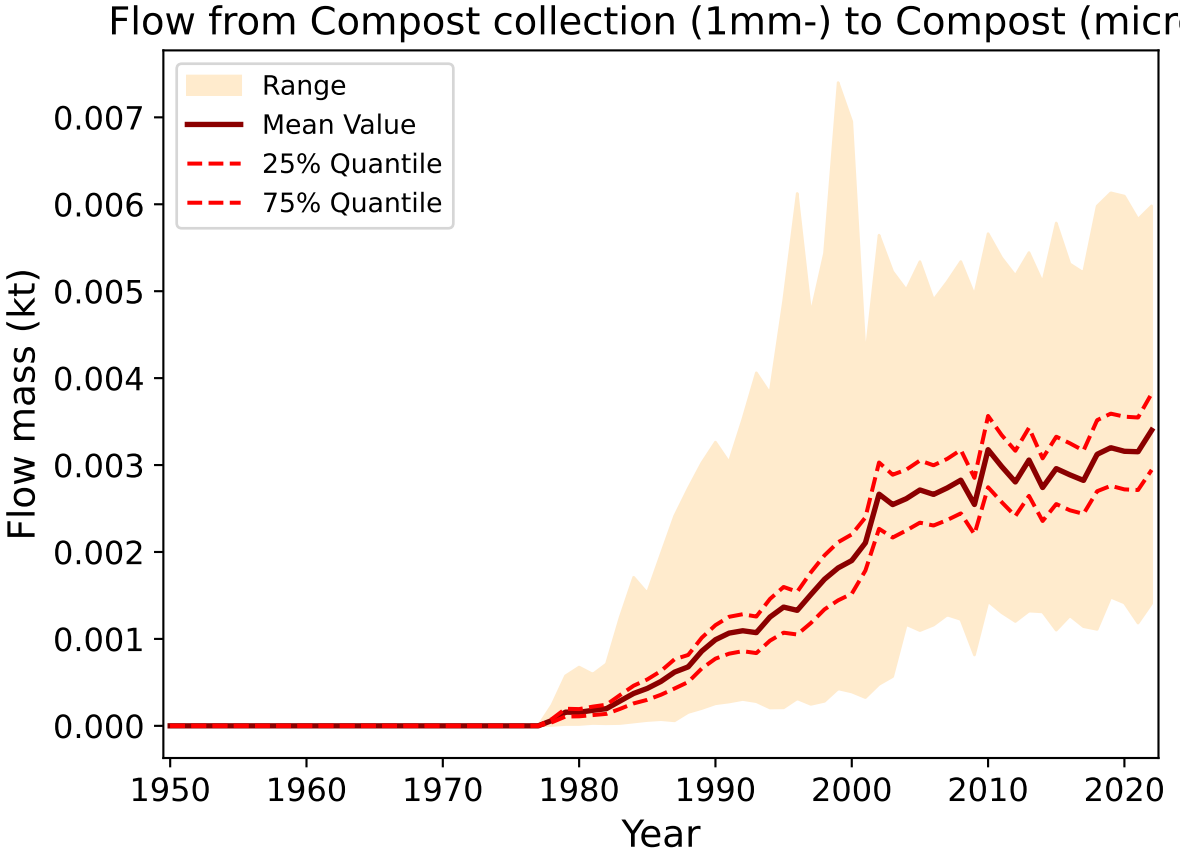

Flow from Litter in natural environments to Mixed Waste Collec
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
1950
1960
1970
1980
1990
2000
2010
2020
Year

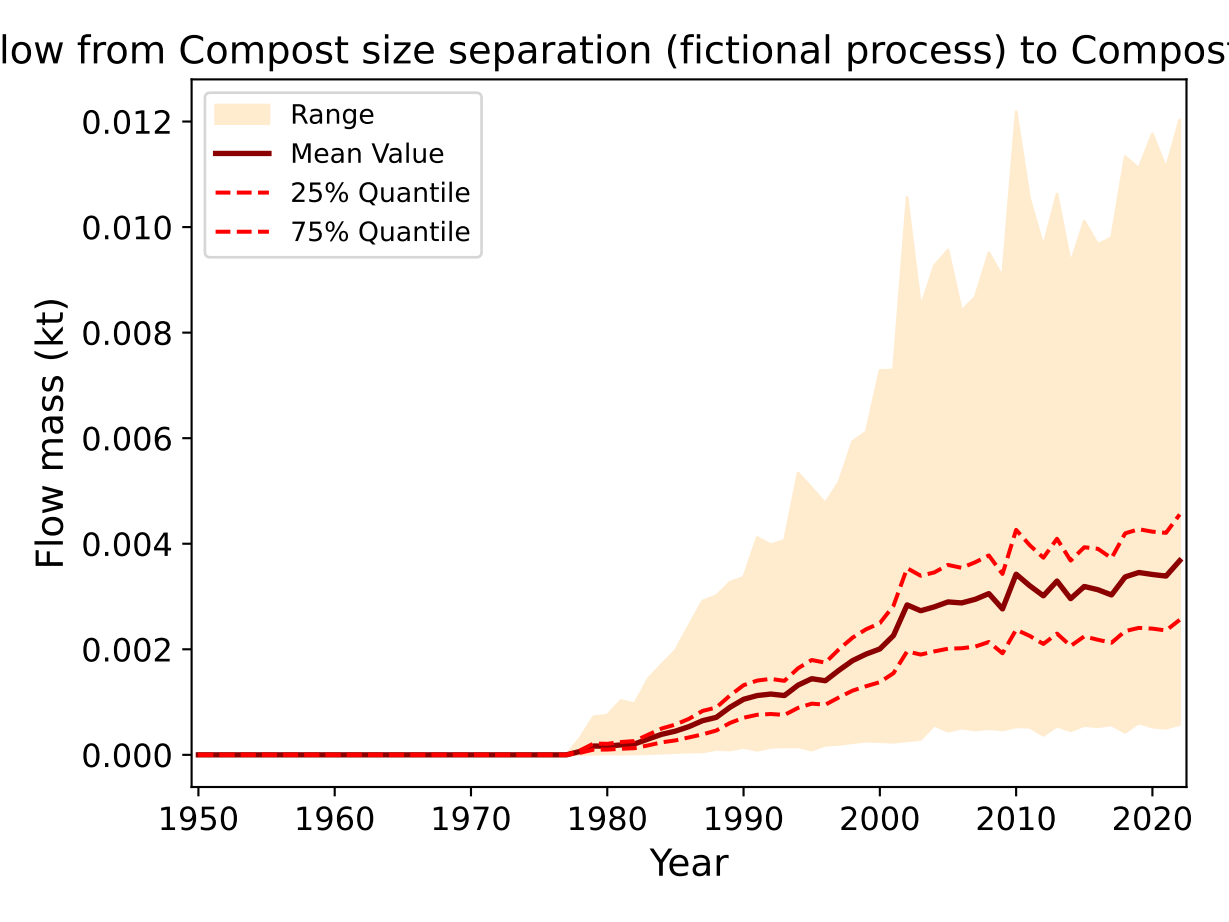

Flow from Litter in natural environments to Natural Soil (mac
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0
0.2
0.4
0.6
0.8
1.0
1.2
1.4
1950
1960
1970
1980
1990
2000
2010
2020
Year

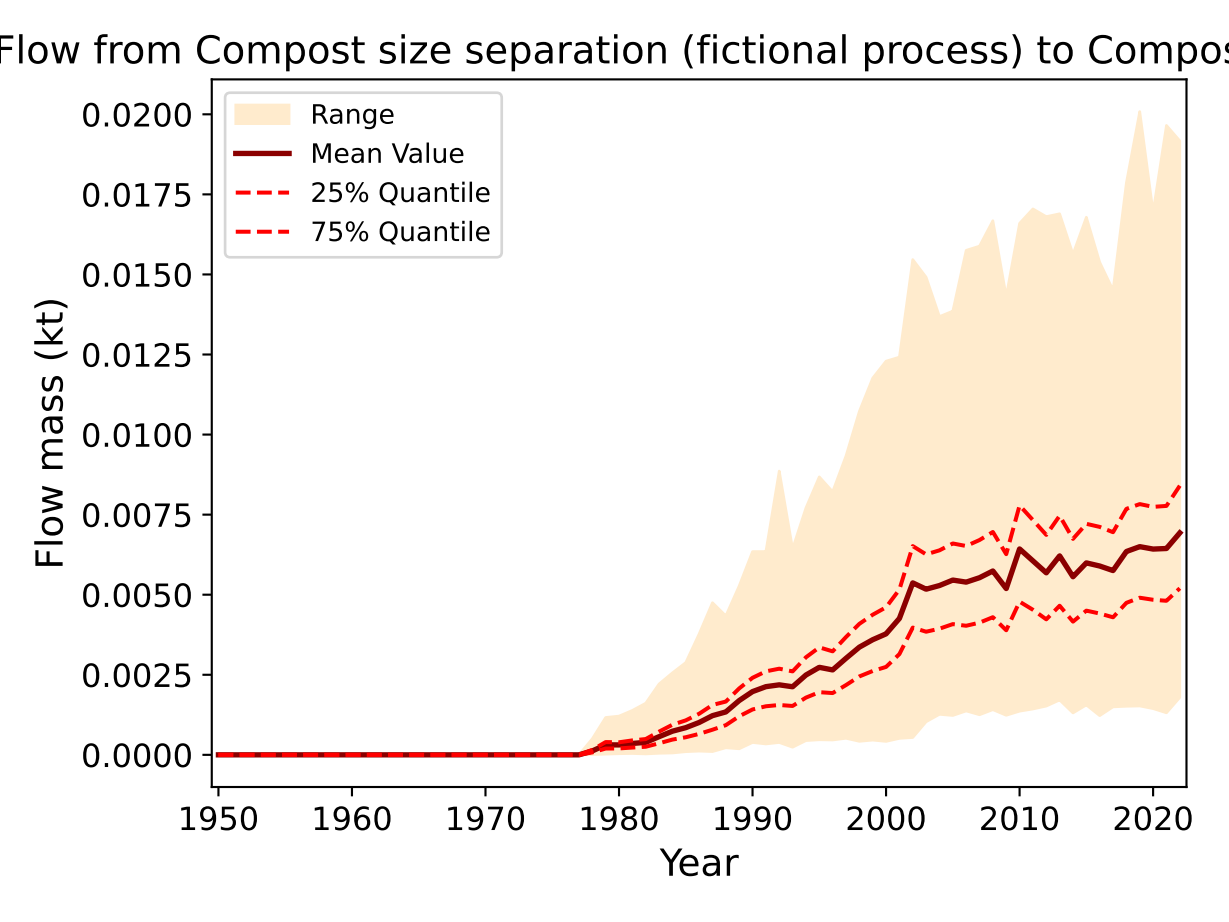

Flow from Litter in natural environments to Surface Water (m
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.014
0.012
0.010
0.008
0.006
0.004
0.002
0.000
1950
1960
1970
1980
1990
2000
2010
2020
Year

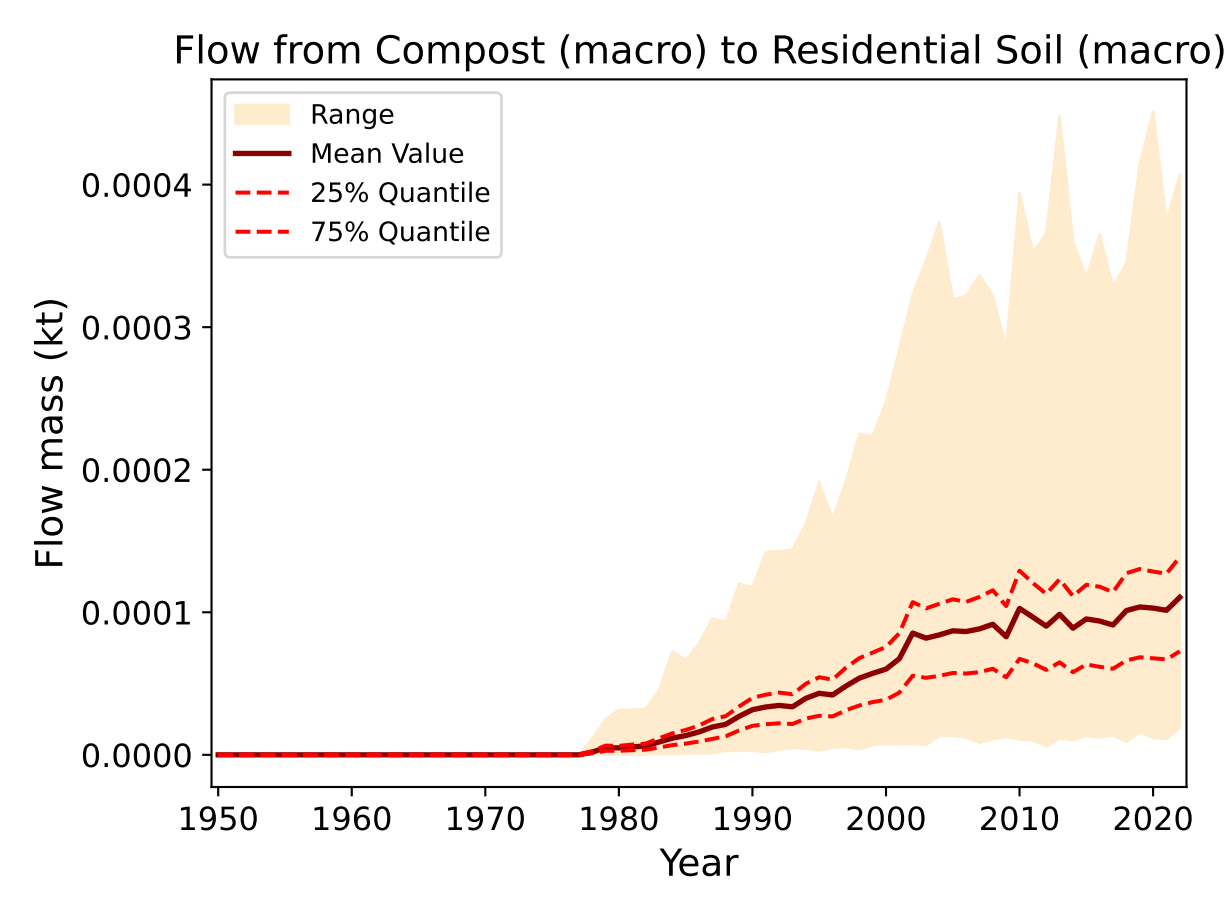

Flow from Compost collection (1mm+) to Incineration
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
2.0
1.5
1.0
0.5
0.0
1950
1960
1970
1980
1990
2000
2010
2020
Year

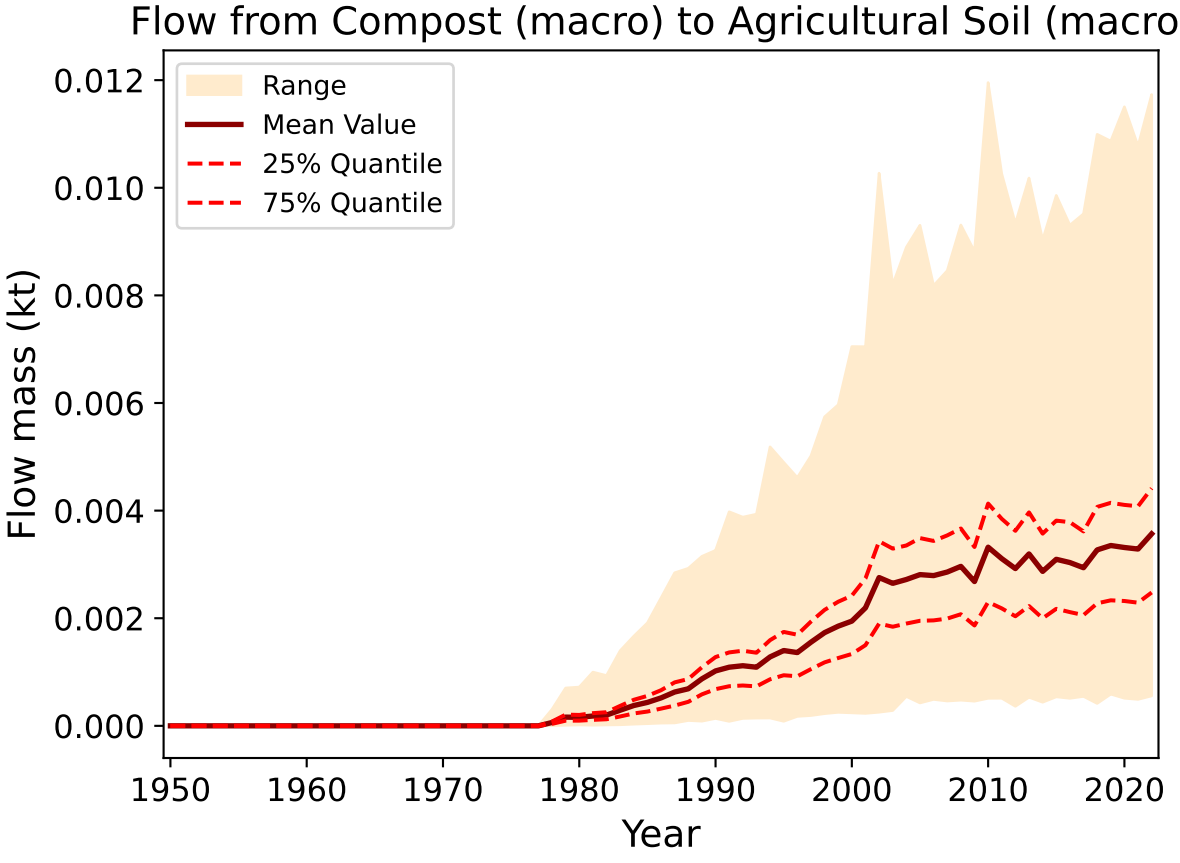

rom Compost collection (1mm+) to Compost size separation (fict
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.025
0.020
0.015
0.010
0.005
0.000
1950
1960
1970
1980
1990
2000
2010
2020
Year

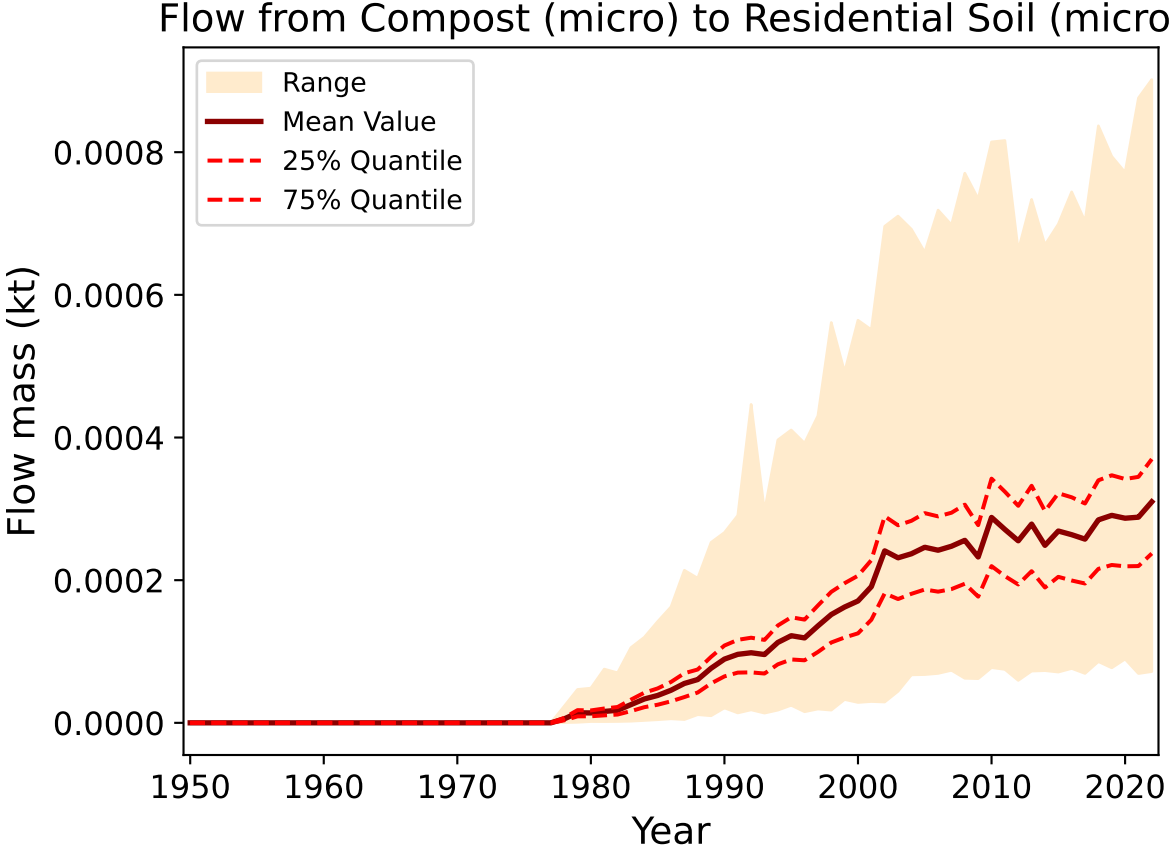

Flow from Compost collection (1mm-) to Compost (micro
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.000
0.001
0.002
0.003
0.004
0.005
0.006
0.007
1950
1960
1970
1980
1990
2000
2010
2020
Year

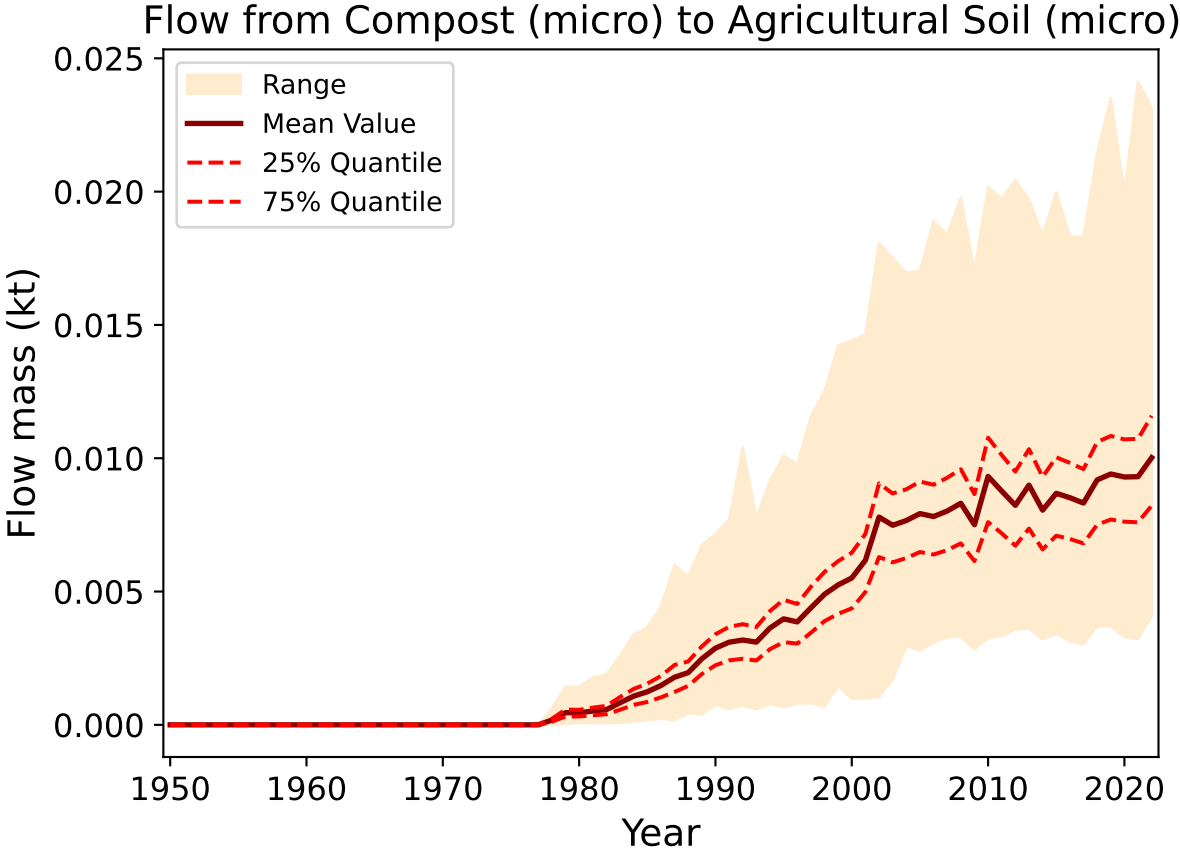

low from Compost size separation (fictional process) to Compost
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.012
0.010
0.008
0.006
0.004
0.002
0.000
1950
1960
1970
1980
1990
2000
2010
2020
Year

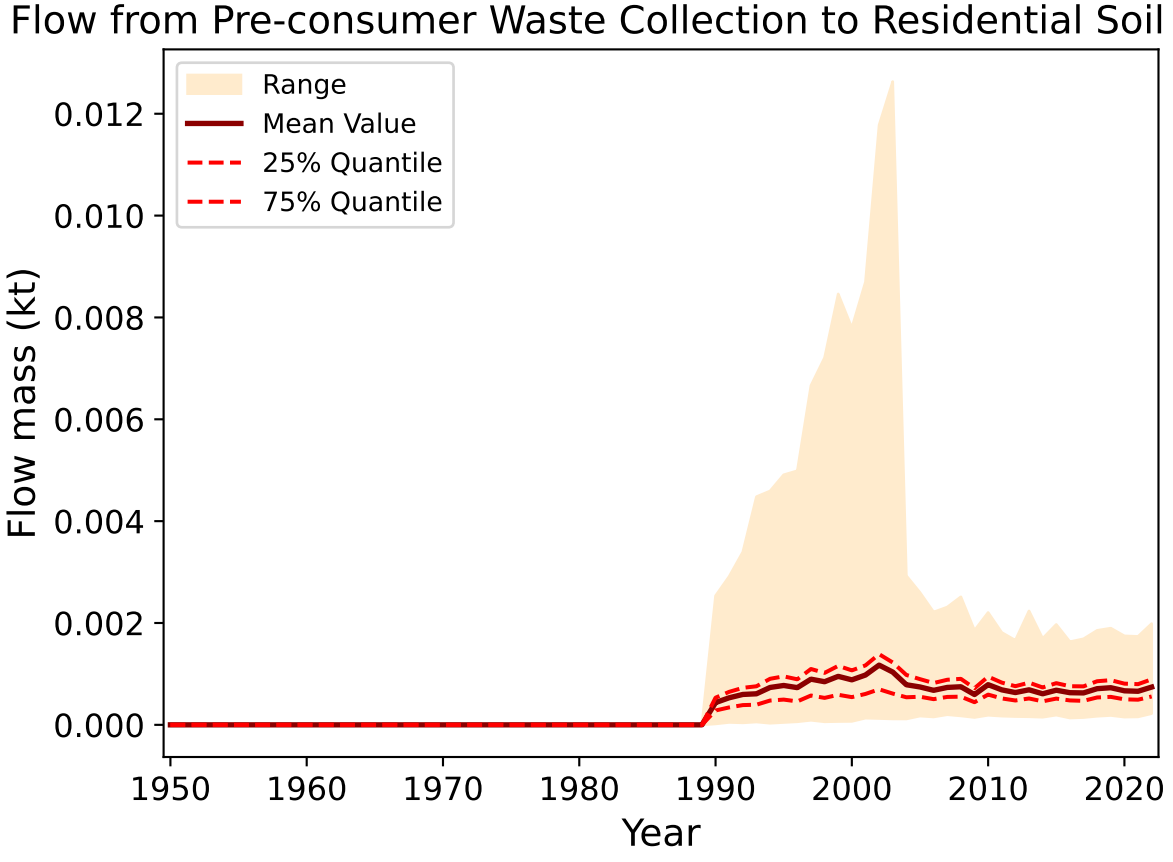

Flow from Compost size separation (fictional process) to Compos
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0.0000
1950
1960
1970
1980
1990
2000
2010
2020
Year

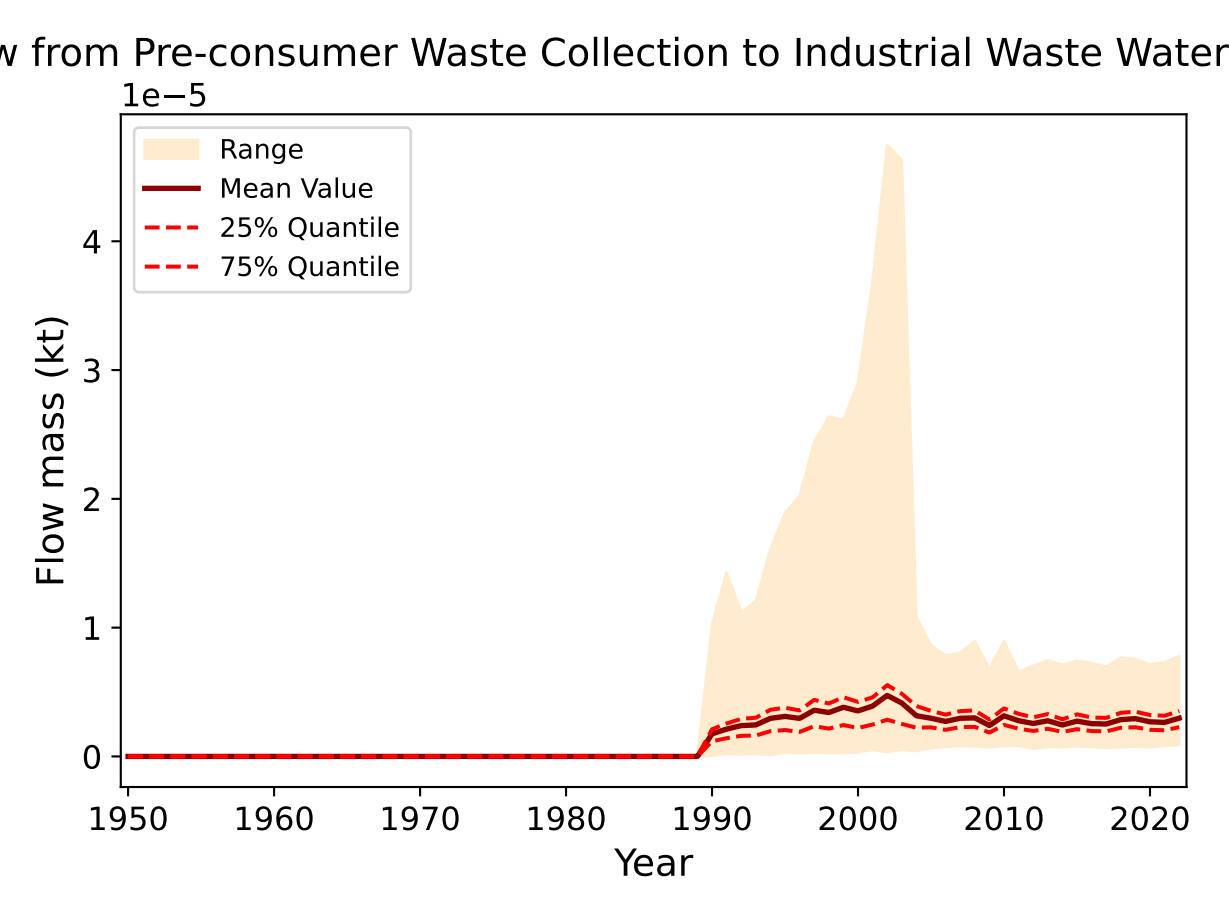

Flow from Compost (macro) to Residential Soil (macro)
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0004
0.0003
0.0002
0.0001
0.0000
1950
1960
1970
1980
1990
2000
2010
2020
Year

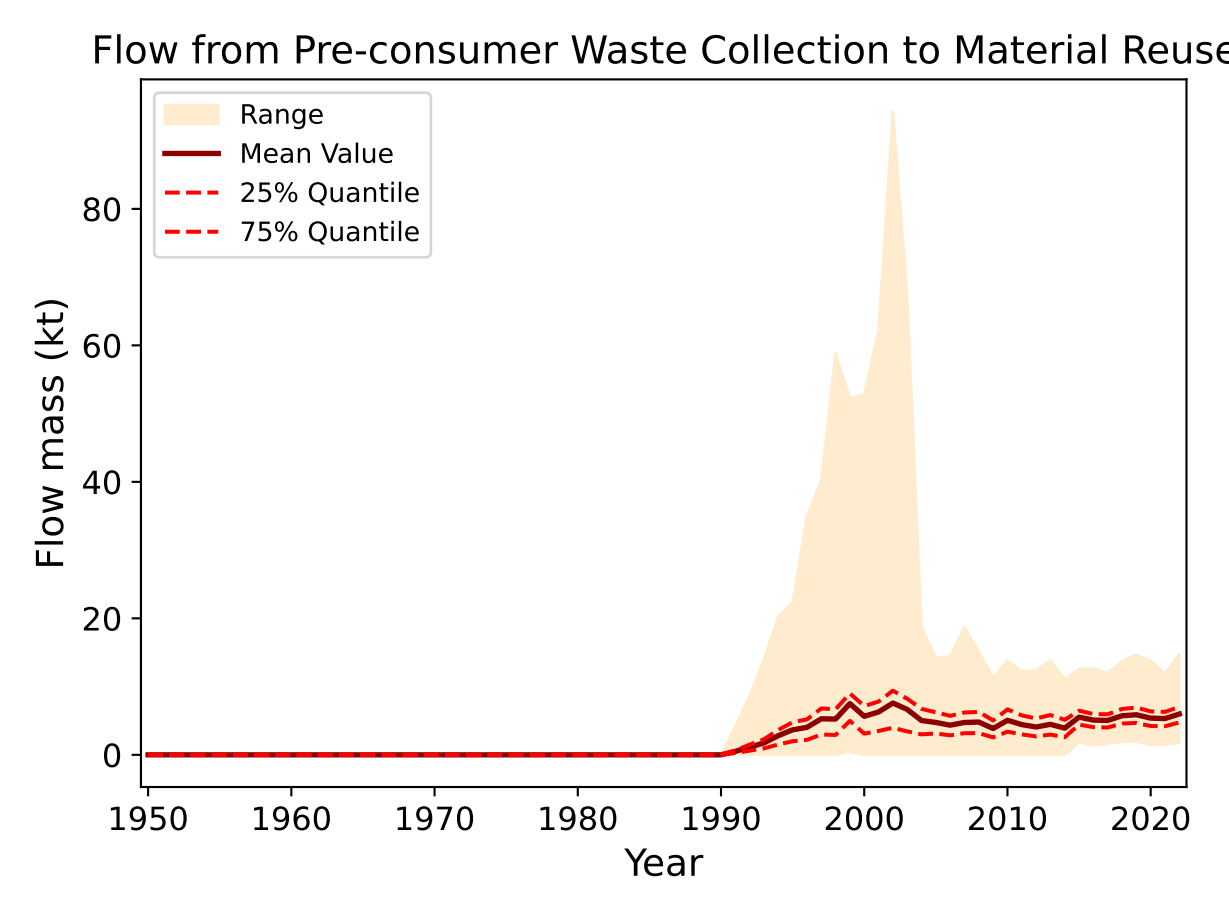

Flow from Compost (macro) to Agricultural Soil (macro)
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.012
0.010
0.008
0.006
0.004
0.002
0.000
1950
1960
1970
1980
1990
2000
2010
2020
Year

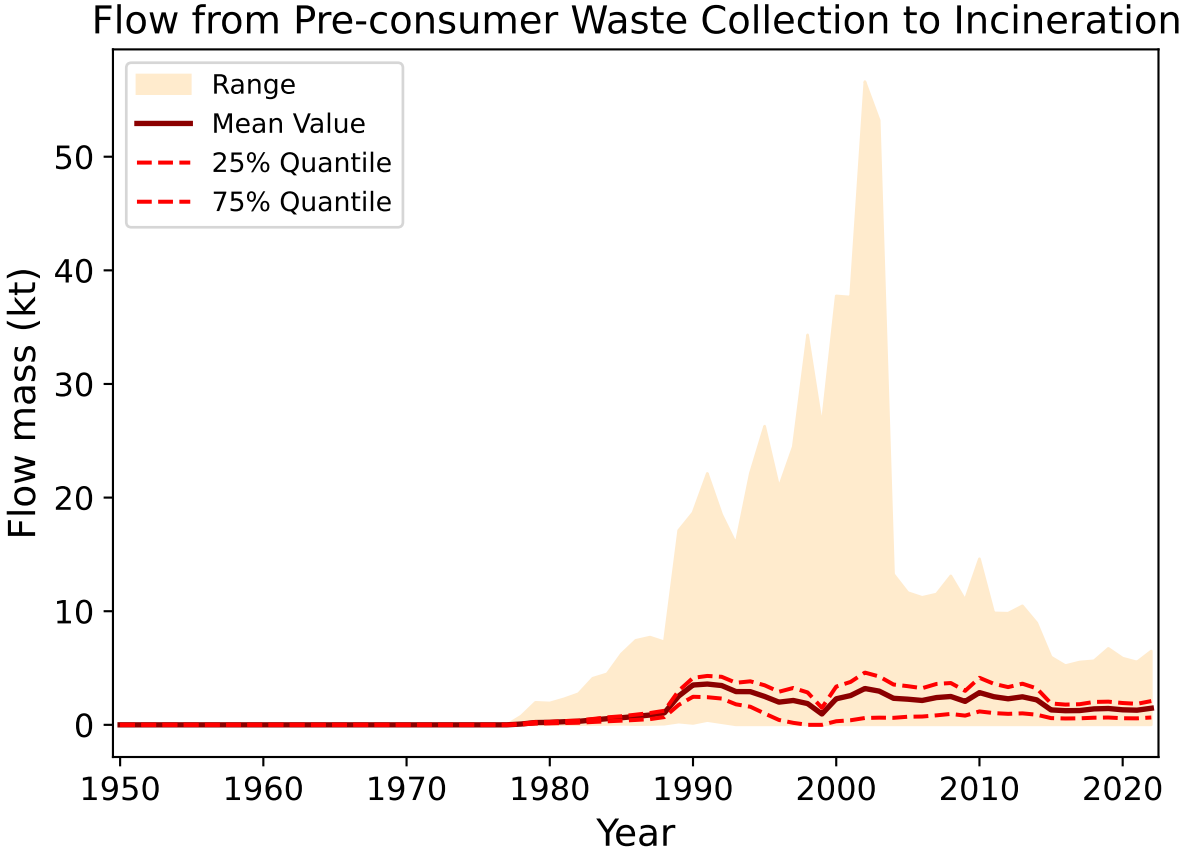

Flow from Compost (micro) to Residential Soil (micro)
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0000
0.0002
0.0004
0.0006
0.0008
1950
1960
1970
1980
1990
2000
2010
2020
Year

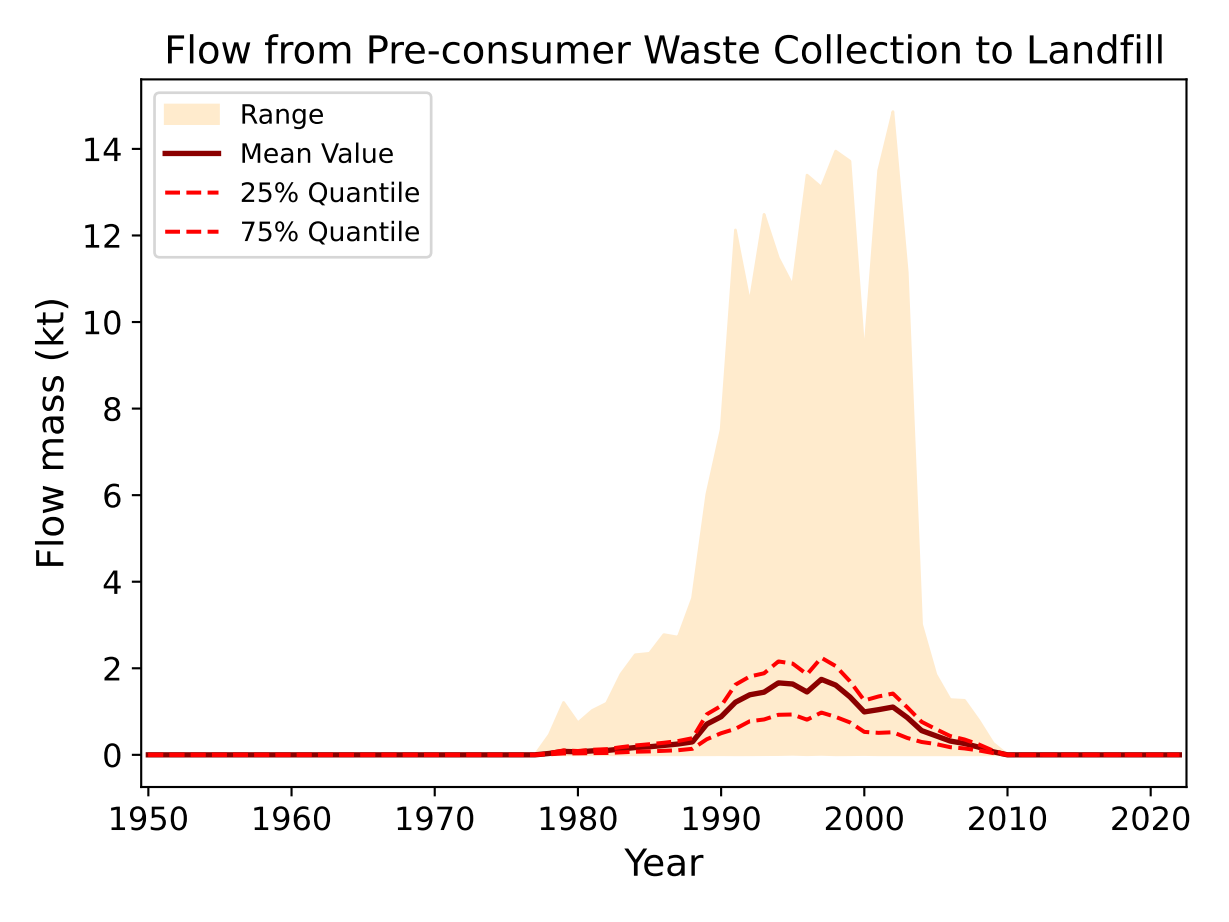

Flow from Compost (micro) to Agricultural Soil (micro)
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.025
0.020
0.015
0.010
0.005
0.000
1950
1960
1970
1980
1990
2000
2010
2020
Year

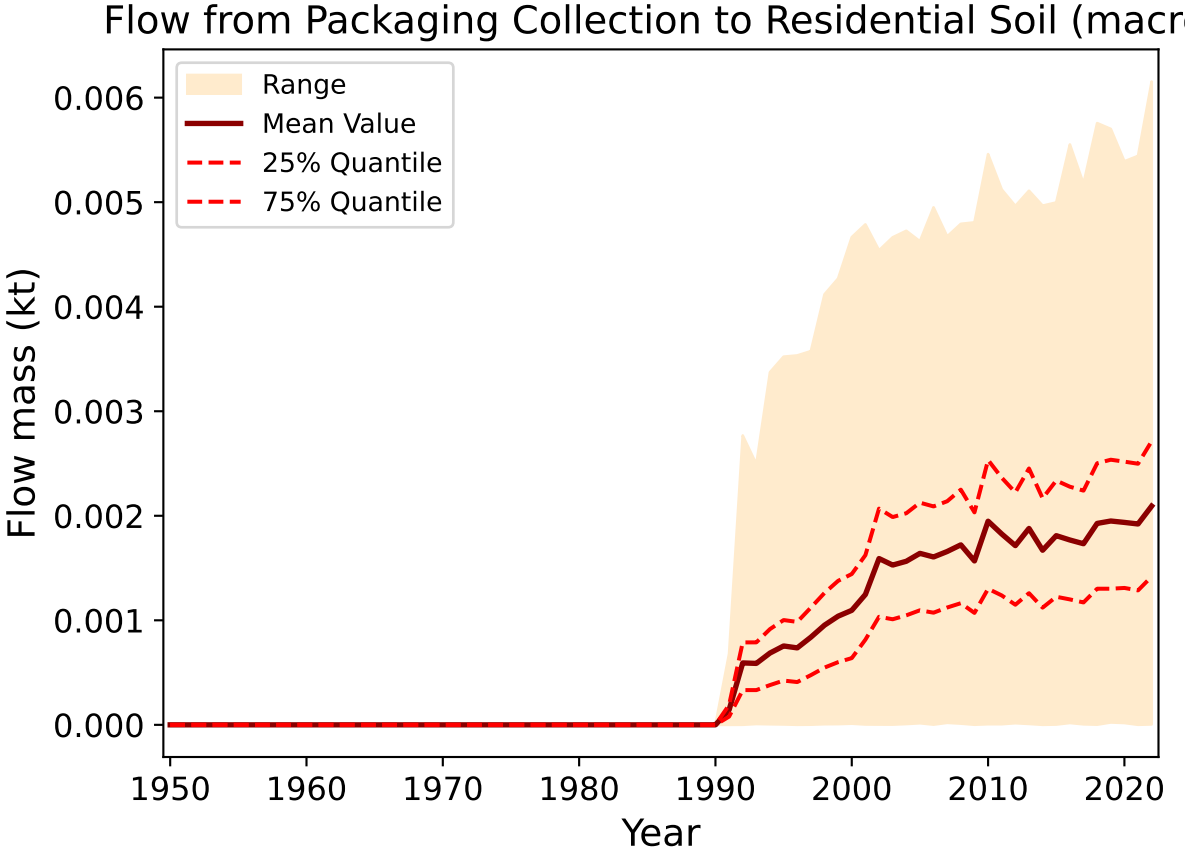

Flow from Pre-consumer Waste Collection to Residential Soil (
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.012
0.010
0.008
0.006
0.004
0.002
0.000
1950
1960
1970
1980
1990
2000
2010
2020
Year

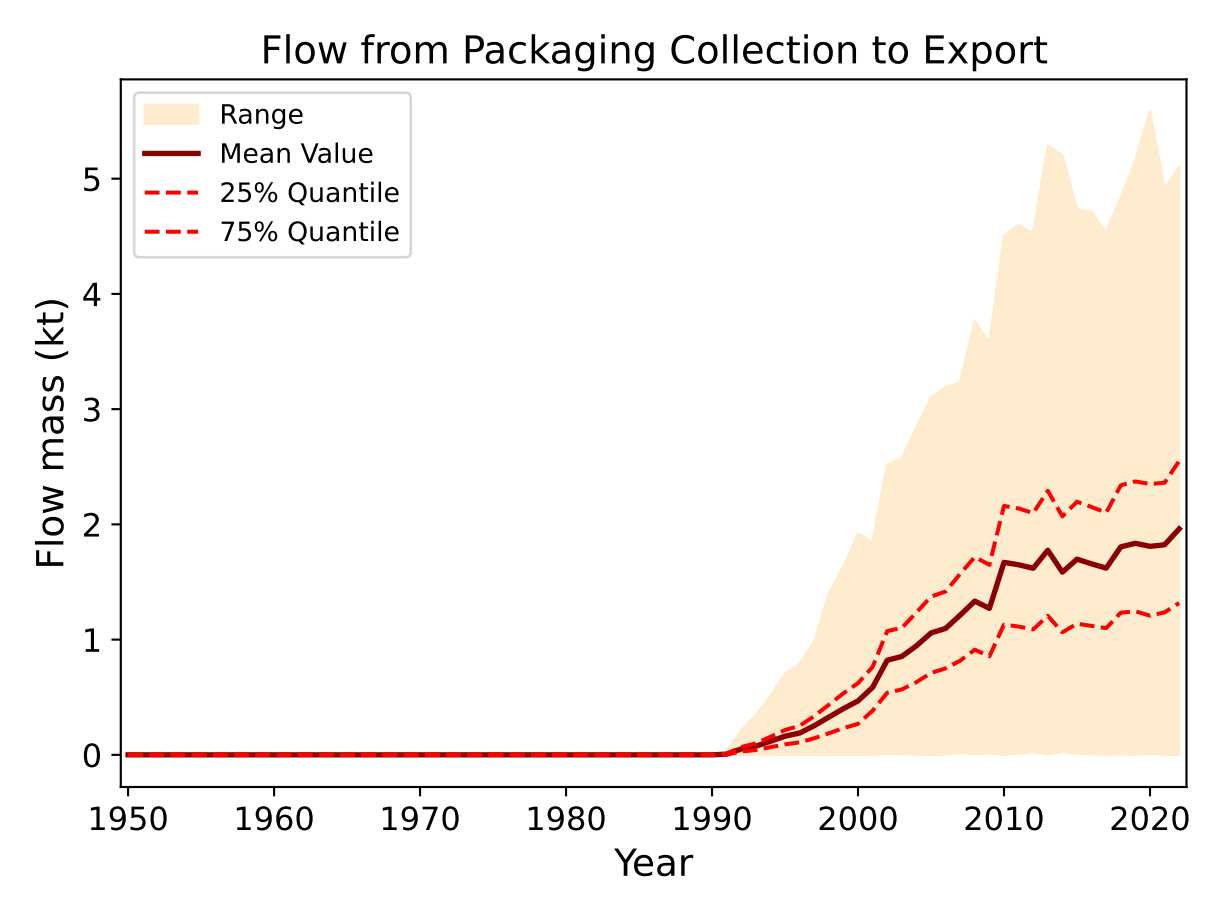

w from Pre-consumer Waste Collection to Industrial Waste Water
1e−5
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
1
2
3
4
1950
1960
1970
1980
1990
2000
2010
2020
Year

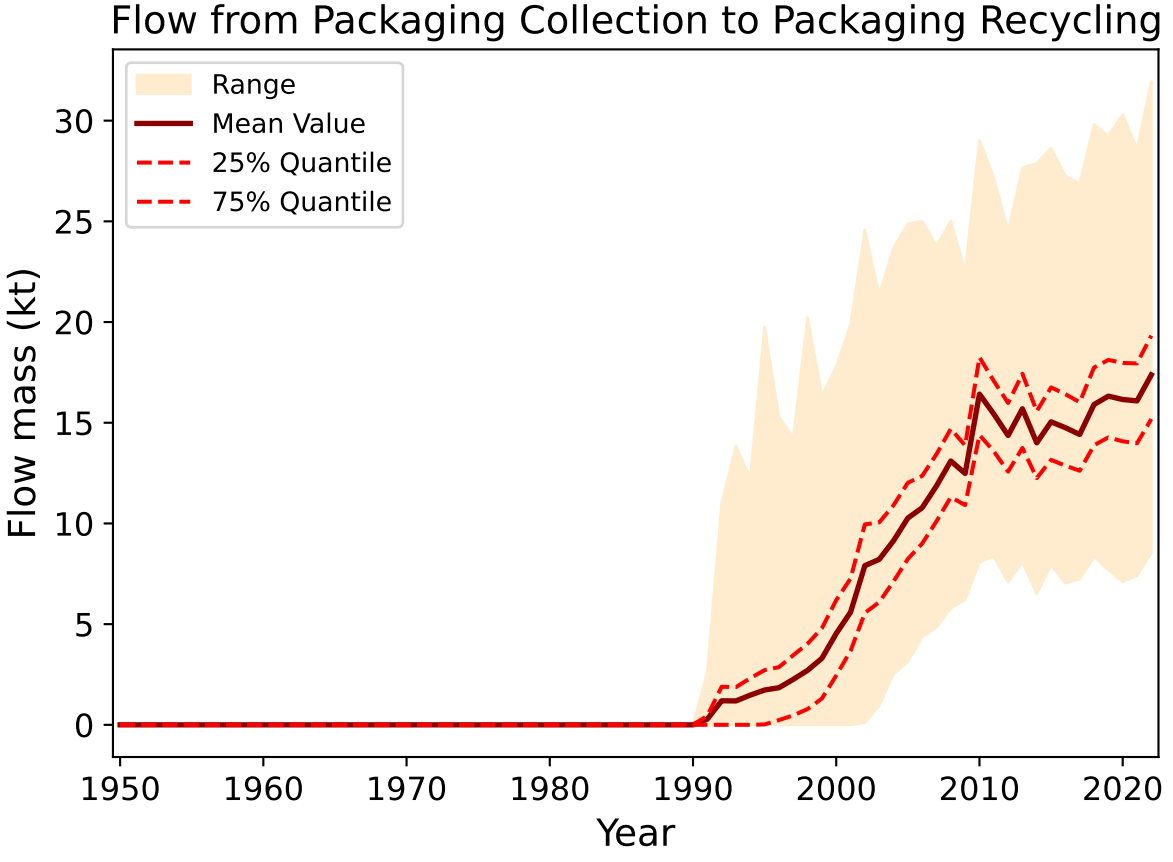

Flow from Pre-consumer Waste Collection to Material Reuse
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
20
40
60
80
1950
1960
1970
1980
1990
2000
2010
2020
Year

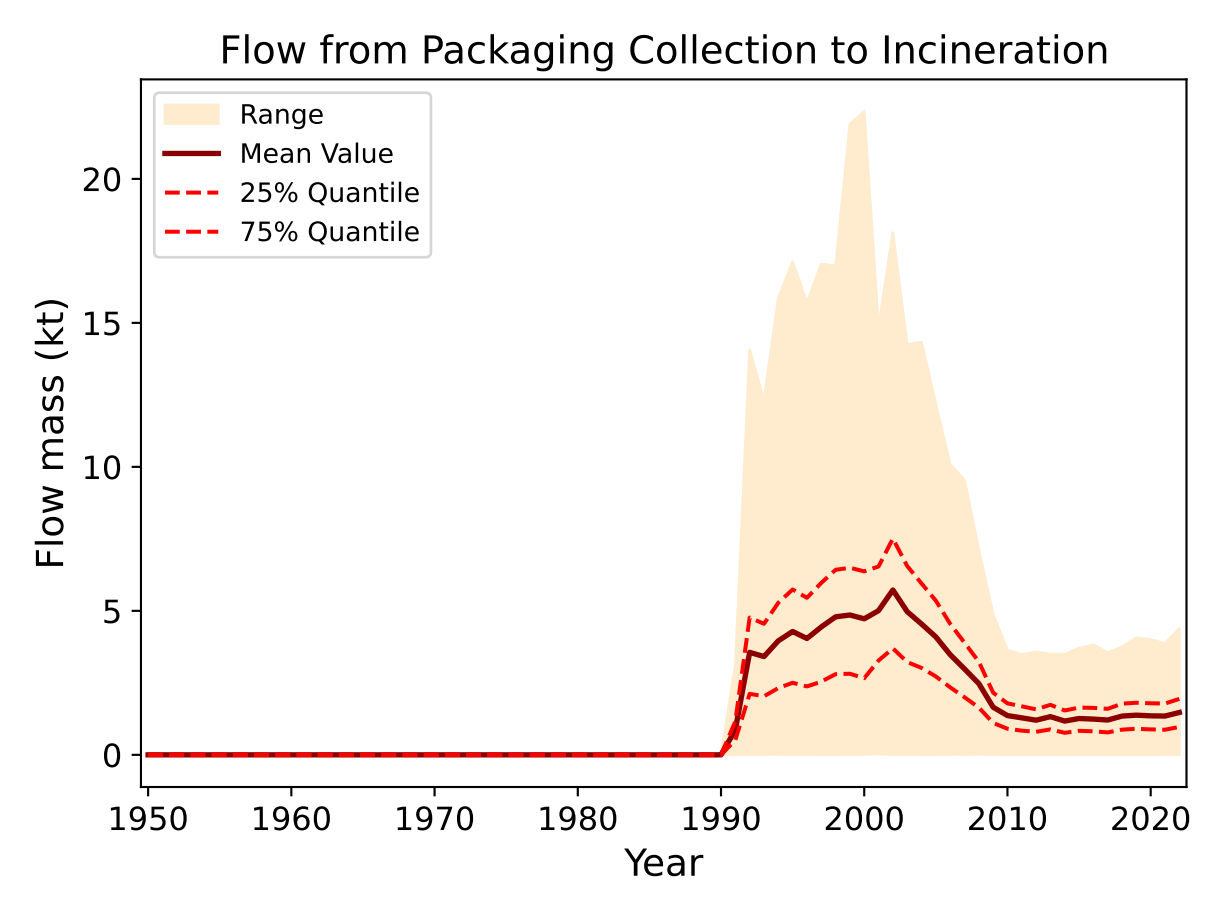

Flow from Pre-consumer Waste Collection to Incineration
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
10
20
30
40
50
1950
1960
1970
1980
1990
2000
2010
2020
Year

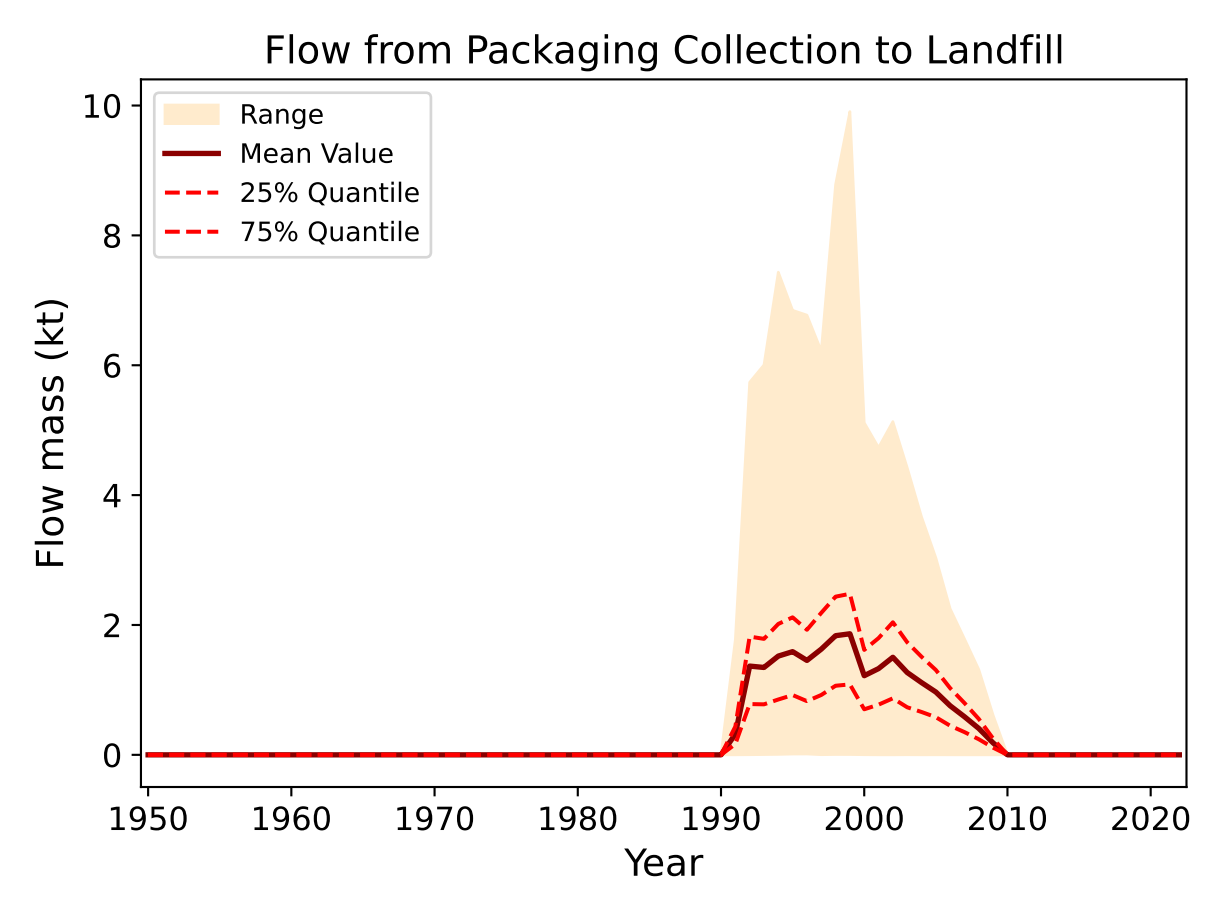

Flow from Pre-consumer Waste Collection to Landfill
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
2
4
6
8
10
12
14
1950
1960
1970
1980
1990
2000
2010
2020
Year

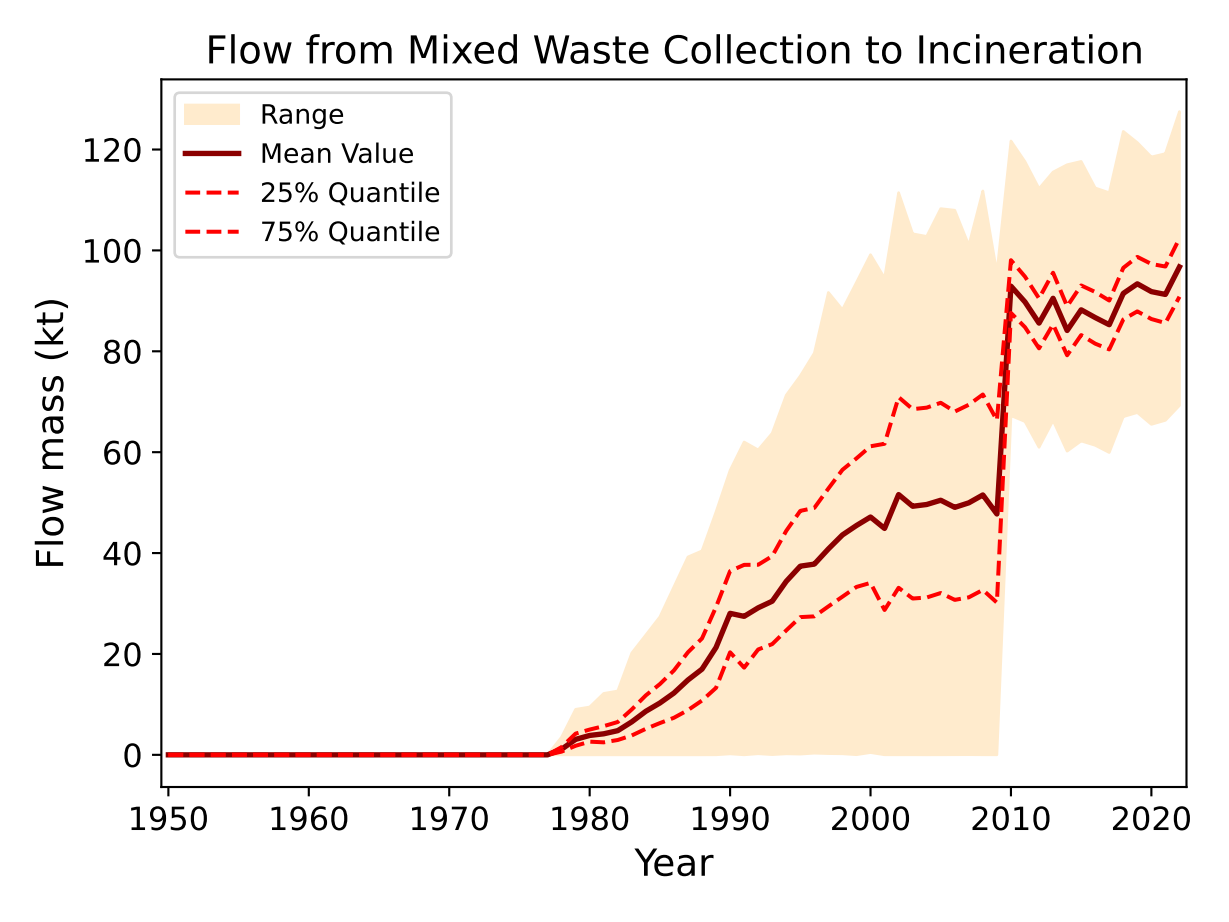

Flow from Packaging Collection to Residential Soil (macro
Range
Mean Value
25% Quantile
75% Quantile
0.006
0.005
0.004
0.003
0.002
0.001
0.000
Flow mass (kt)
1950
1960
1970
1980
1990
2000
2010
2020
Year

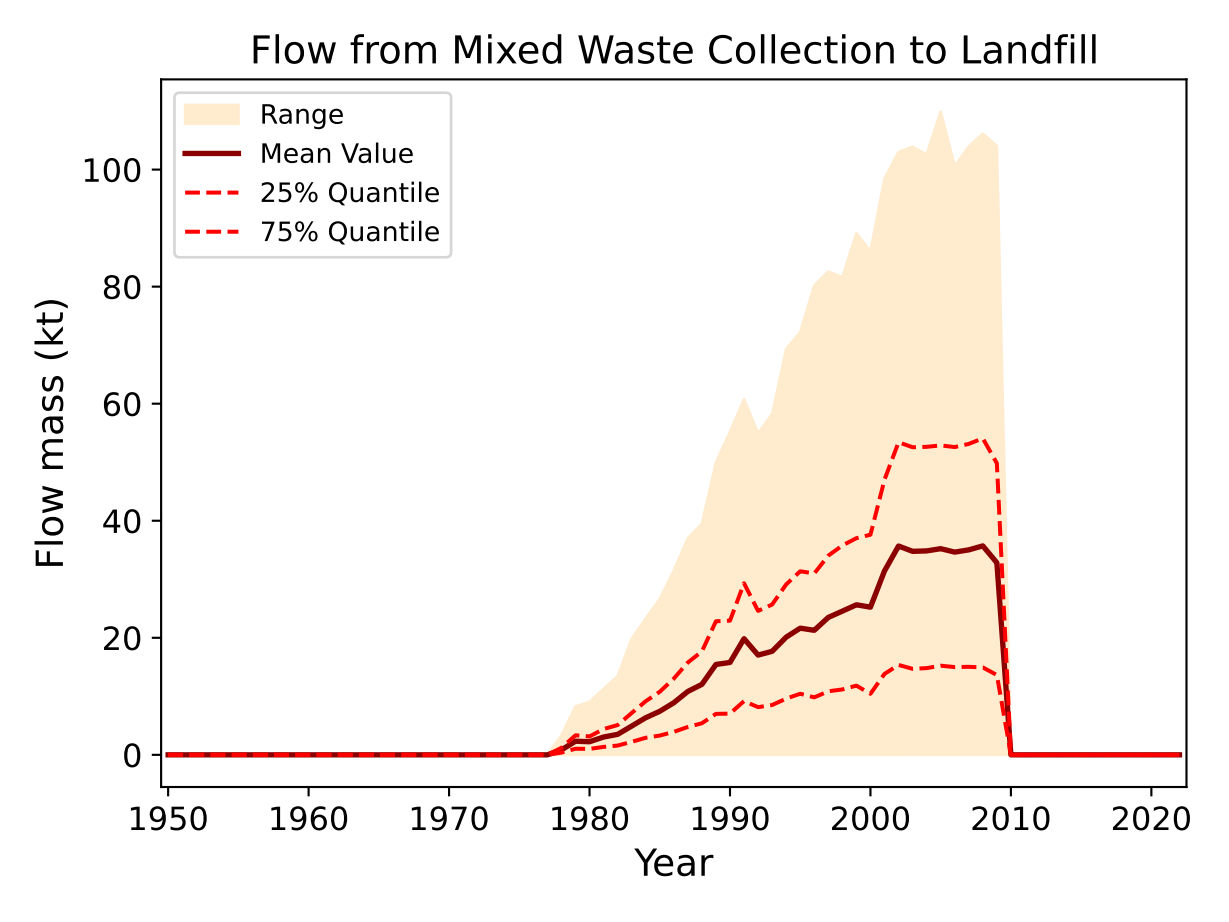

Flow from Packaging Collection to Export
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
1
2
3
4
5
1950
1960
1970
1980
1990
2000
2010
2020
Year

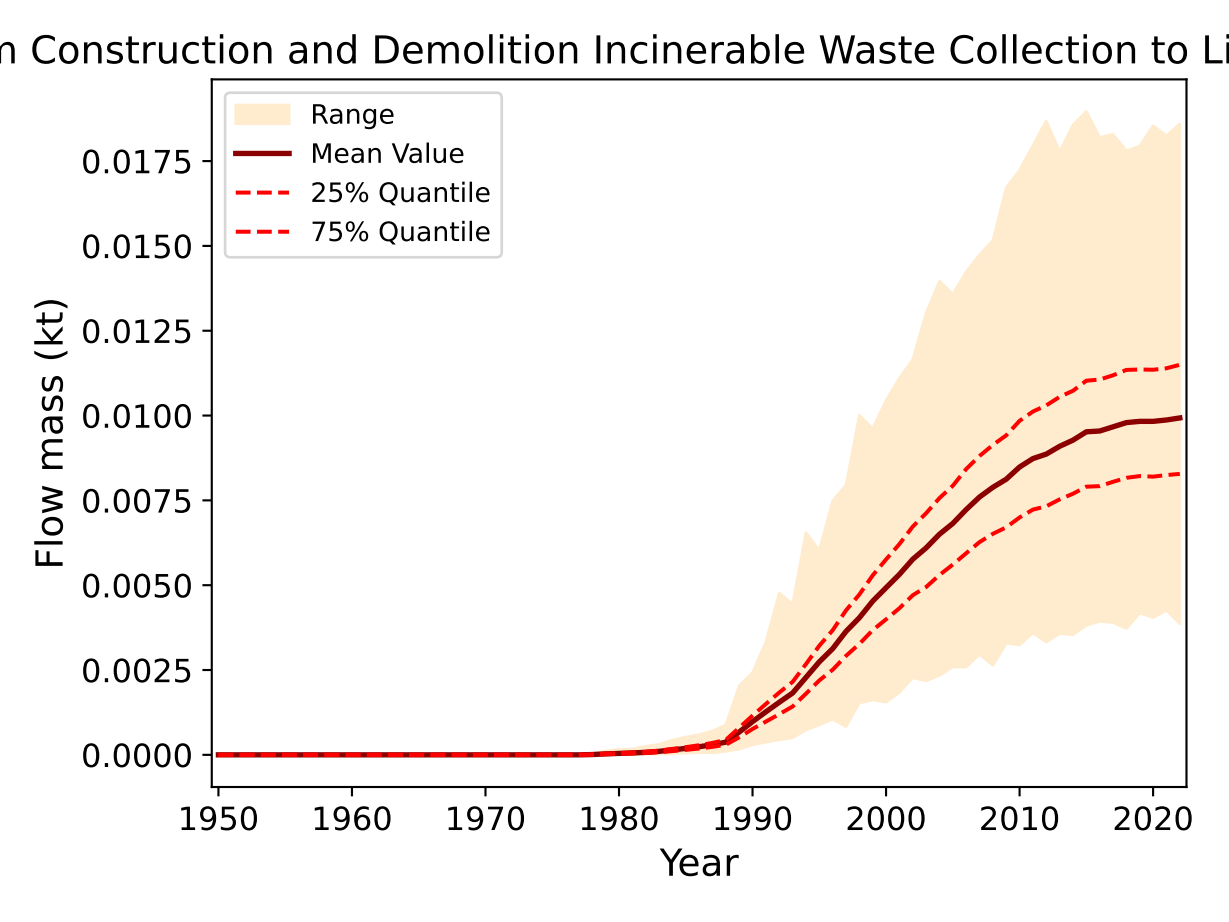

Flow from Packaging Collection to Packaging Recycling
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
5
10
15
20
25
30
1950
1960
1970
1980
1990
2000
2010
2020
Year

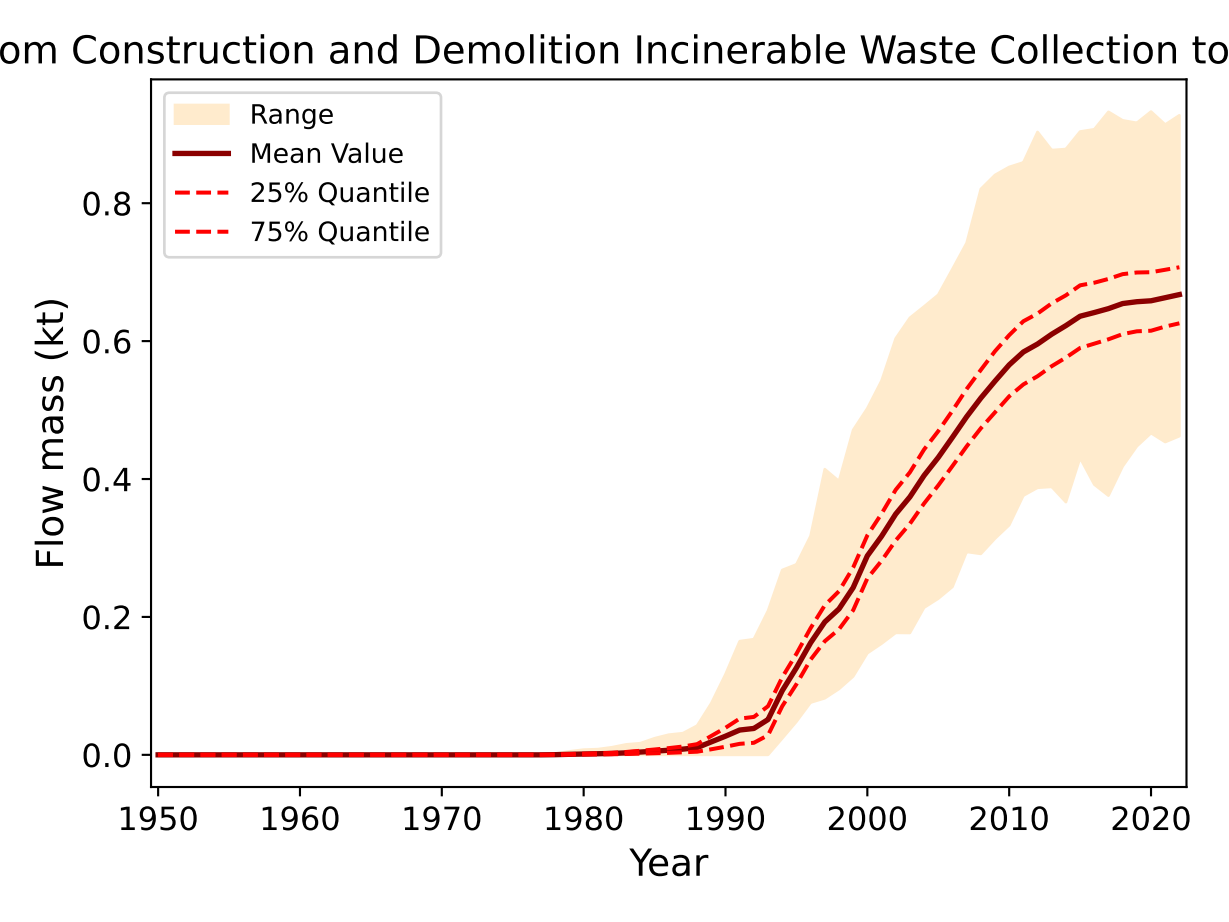

Flow from Packaging Collection to Incineration
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
5
10
15
20
1950
1960
1970
1980
1990
2000
2010
2020
Year

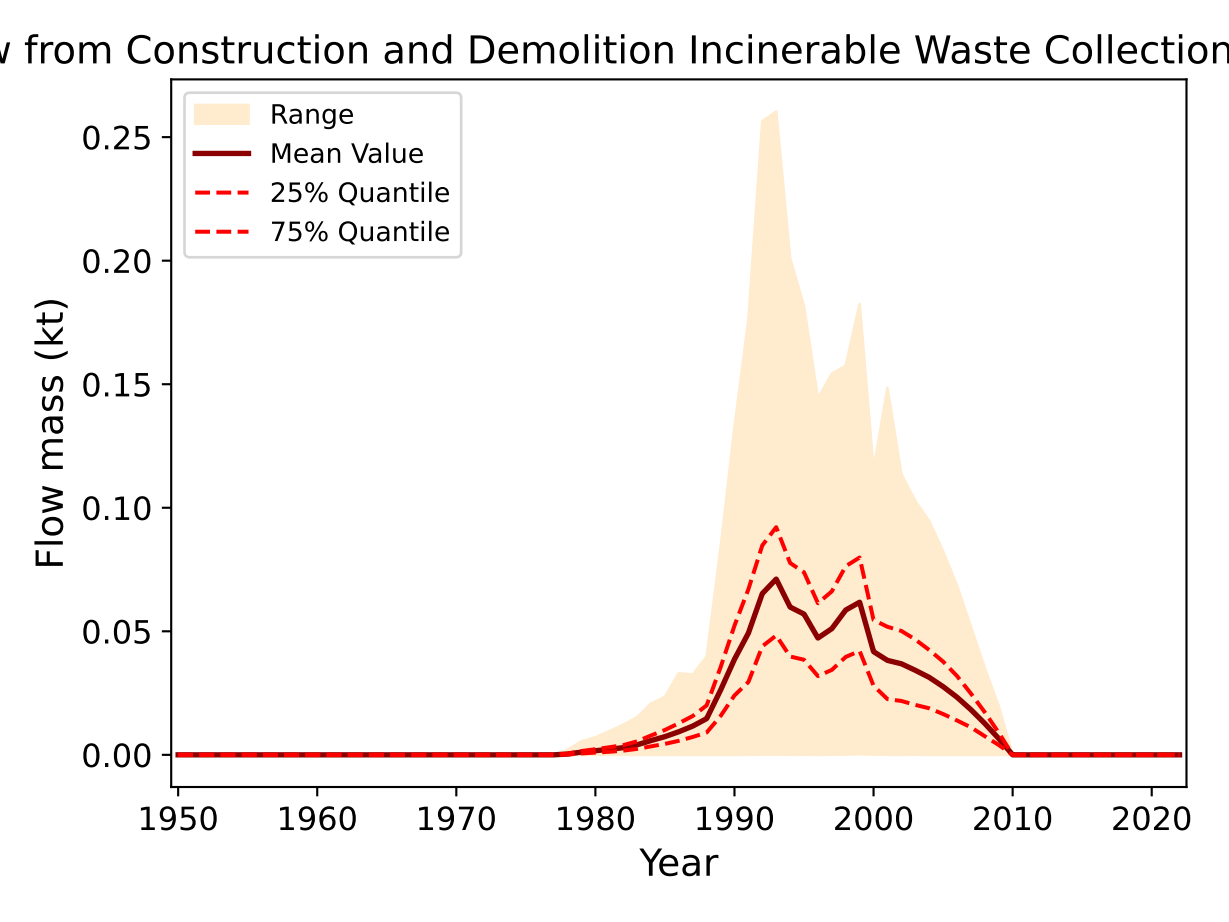

Flow from Packaging Collection to Landfill
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
2
4
6
8
10
1950
1960
1970
1980
1990
2000
2010
2020
Year

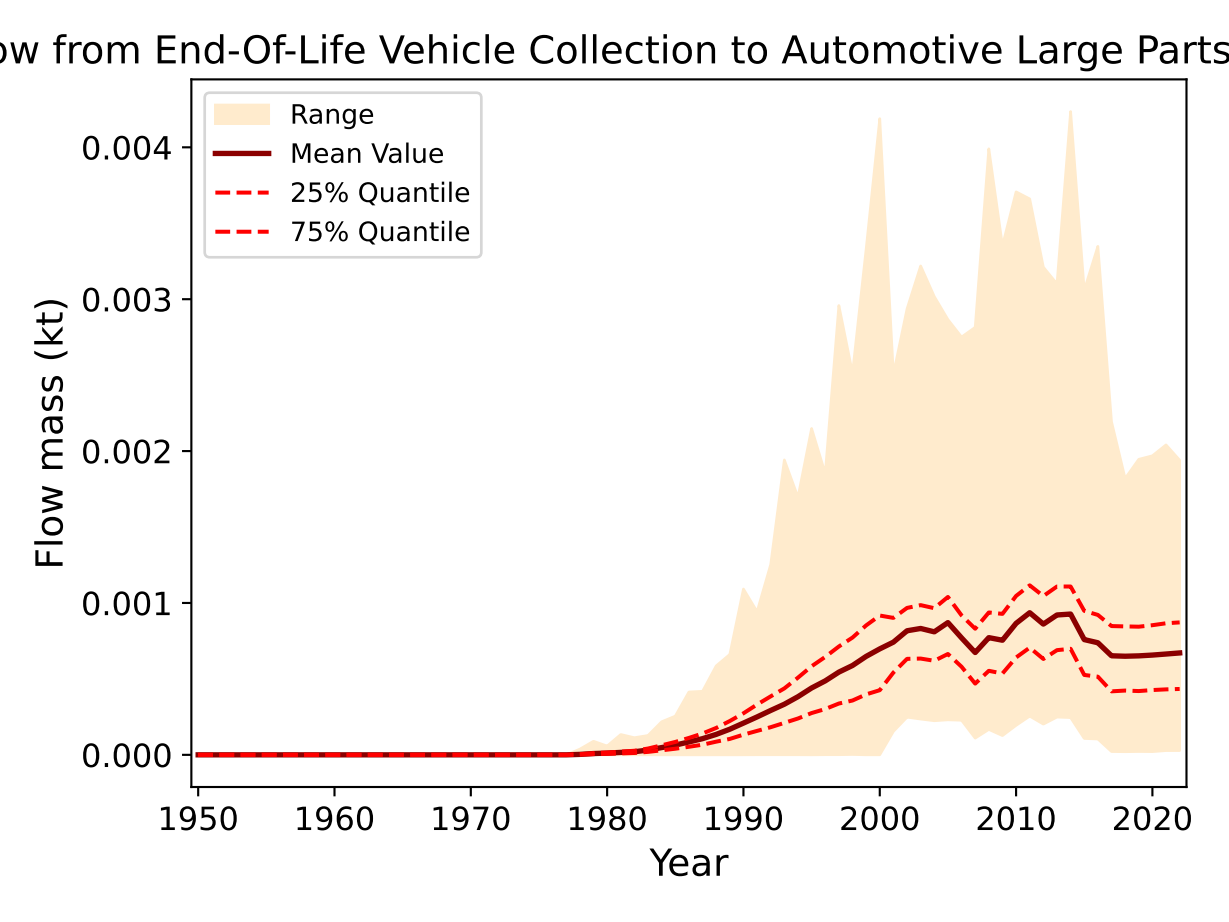

Flow from Mixed Waste Collection to Incineration
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
20
40
60
80
100
120
1950
1960
1970
1980
1990
2000
2010
2020
Year

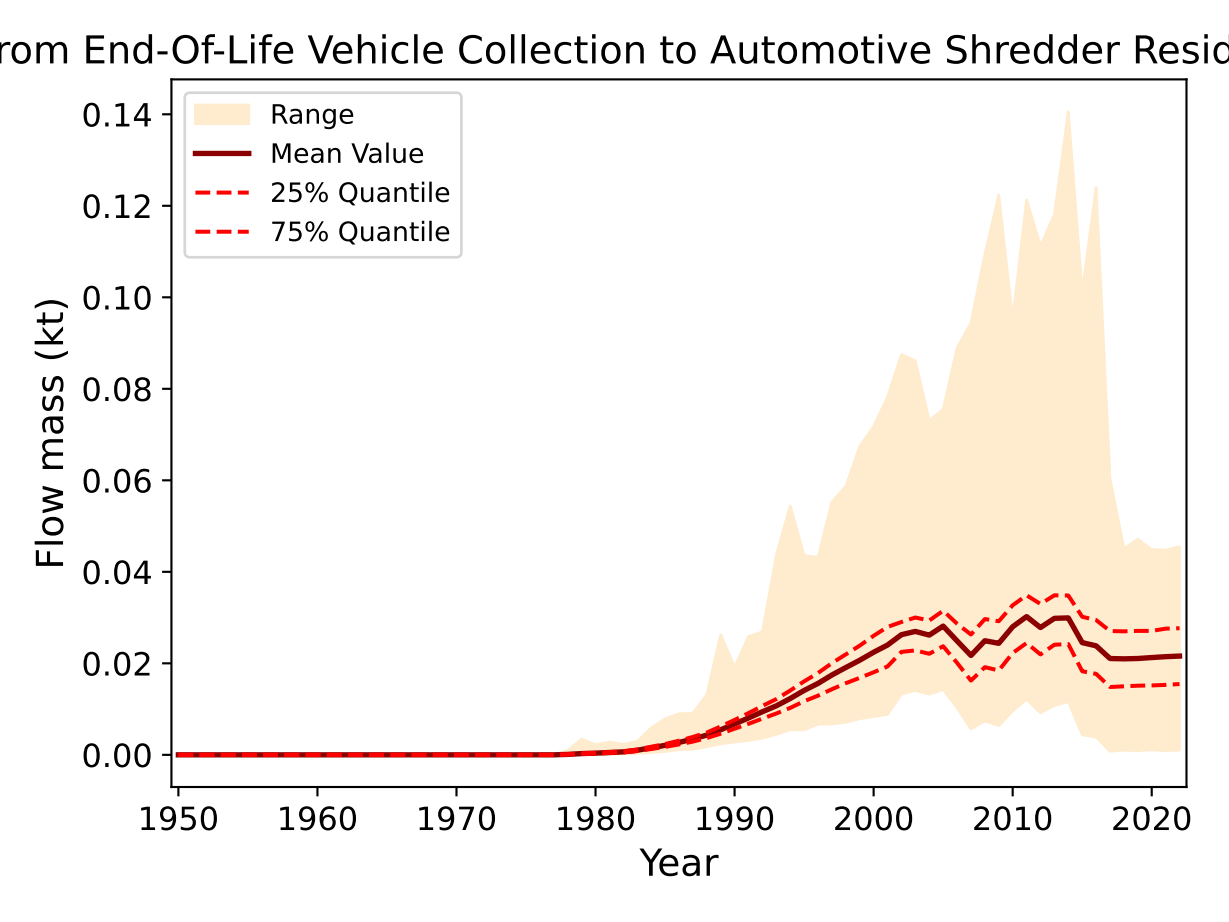

Flow from Mixed Waste Collection to Landfill
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
20
40
60
80
100
1950
1960
1970
1980
1990
2000
2010
2020
Year

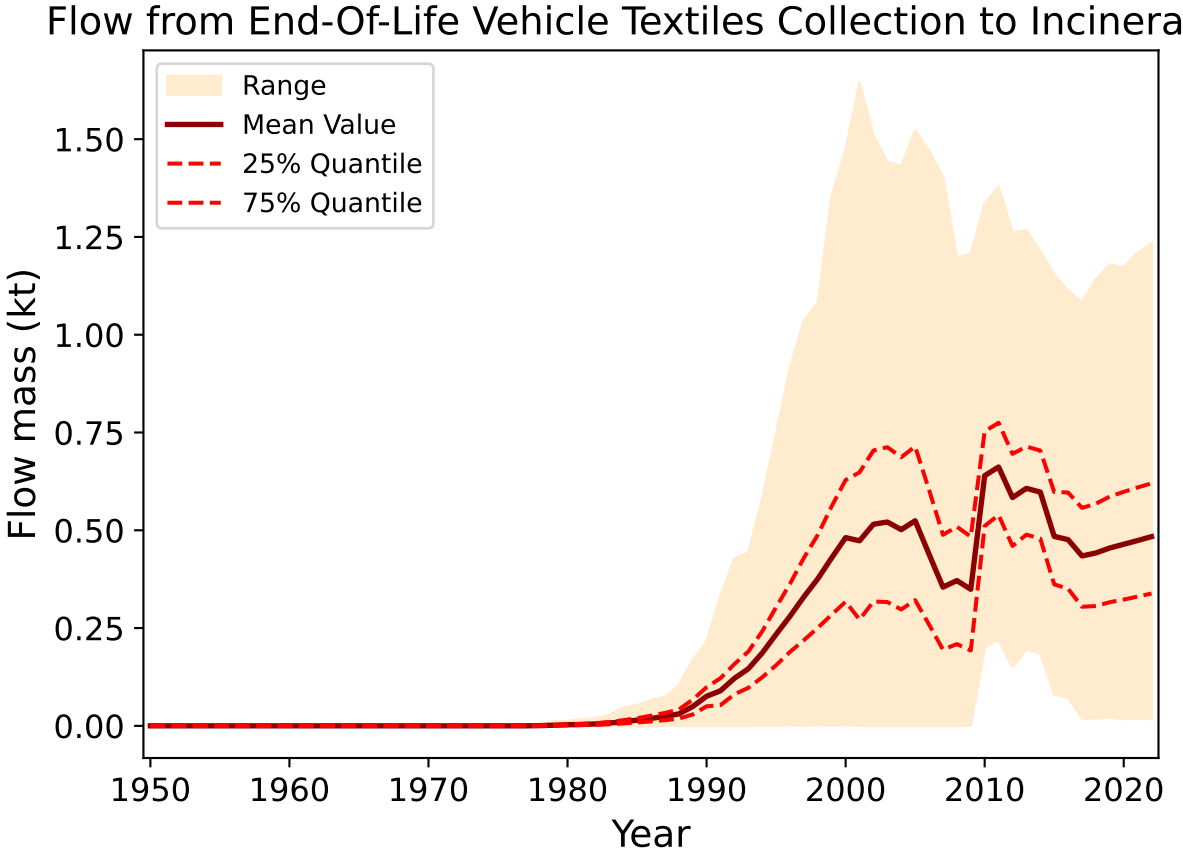

n Construction and Demolition Incinerable Waste Collection to Li
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0.0000
1950
1960
1970
1980
1990
2000
2010
2020
Year

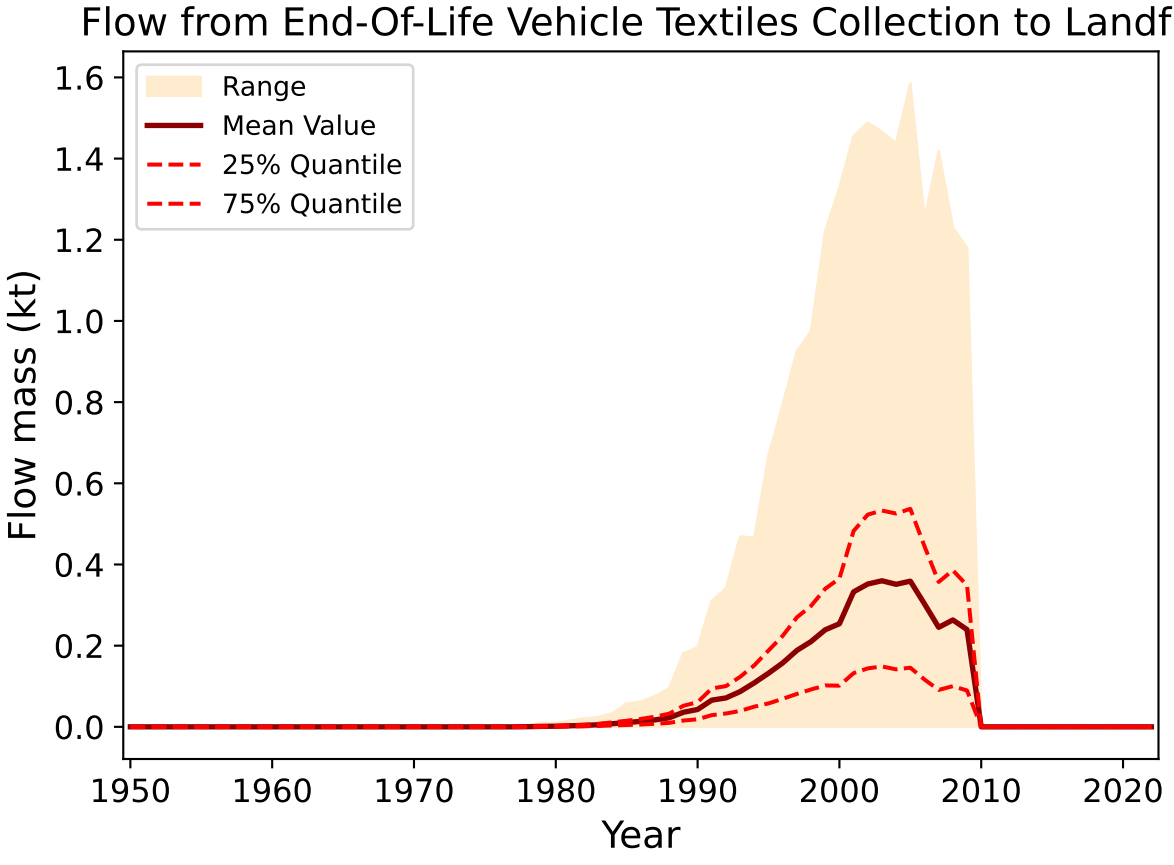

om Construction and Demolition Incinerable Waste Collection to
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0
0.2
0.4
0.6
0.8
1950
1960
1970
1980
1990
2000
2010
2020
Year

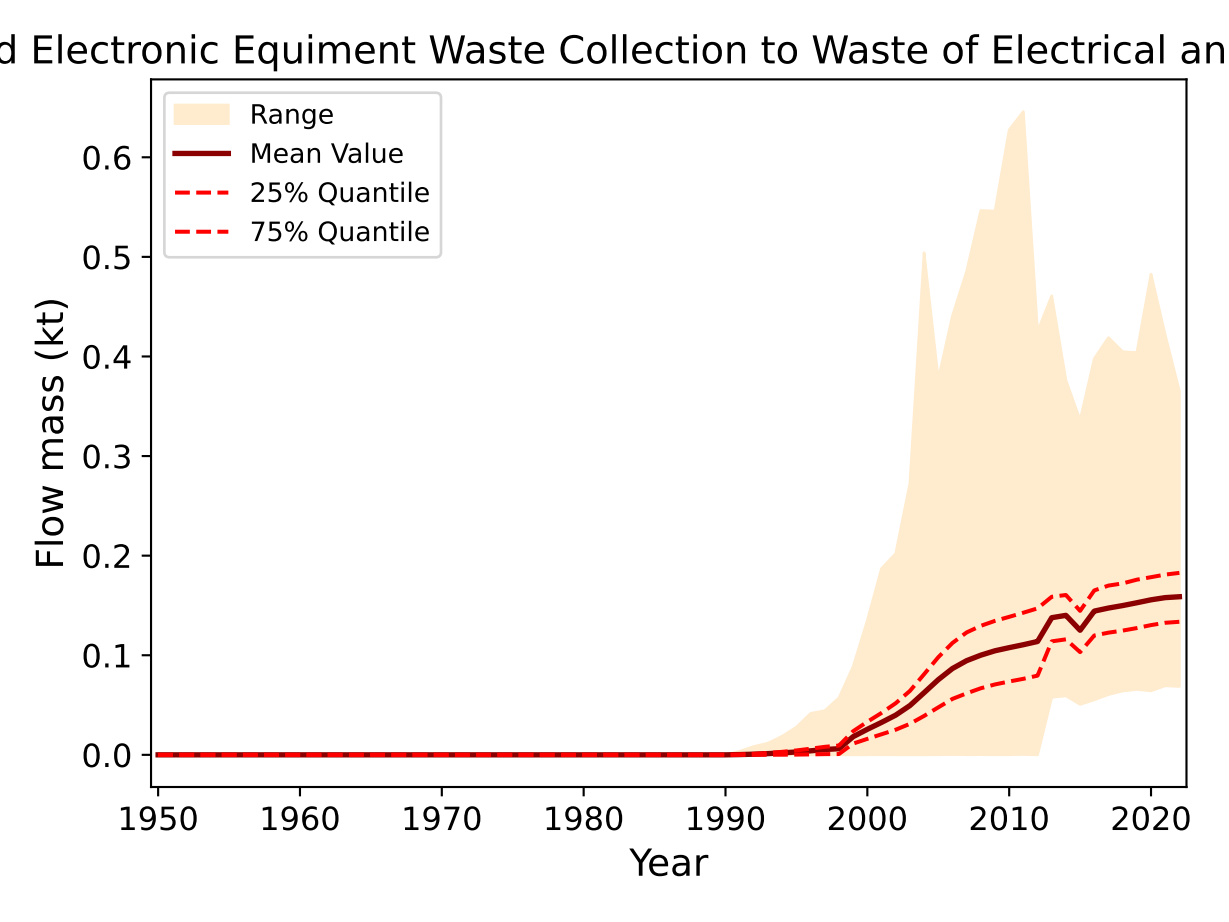

w from Construction and Demolition Incinerable Waste Collection
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.25
0.20
0.15
0.10
0.05
0.00
1950
1960
1970
1980
1990
2000
2010
2020
Year

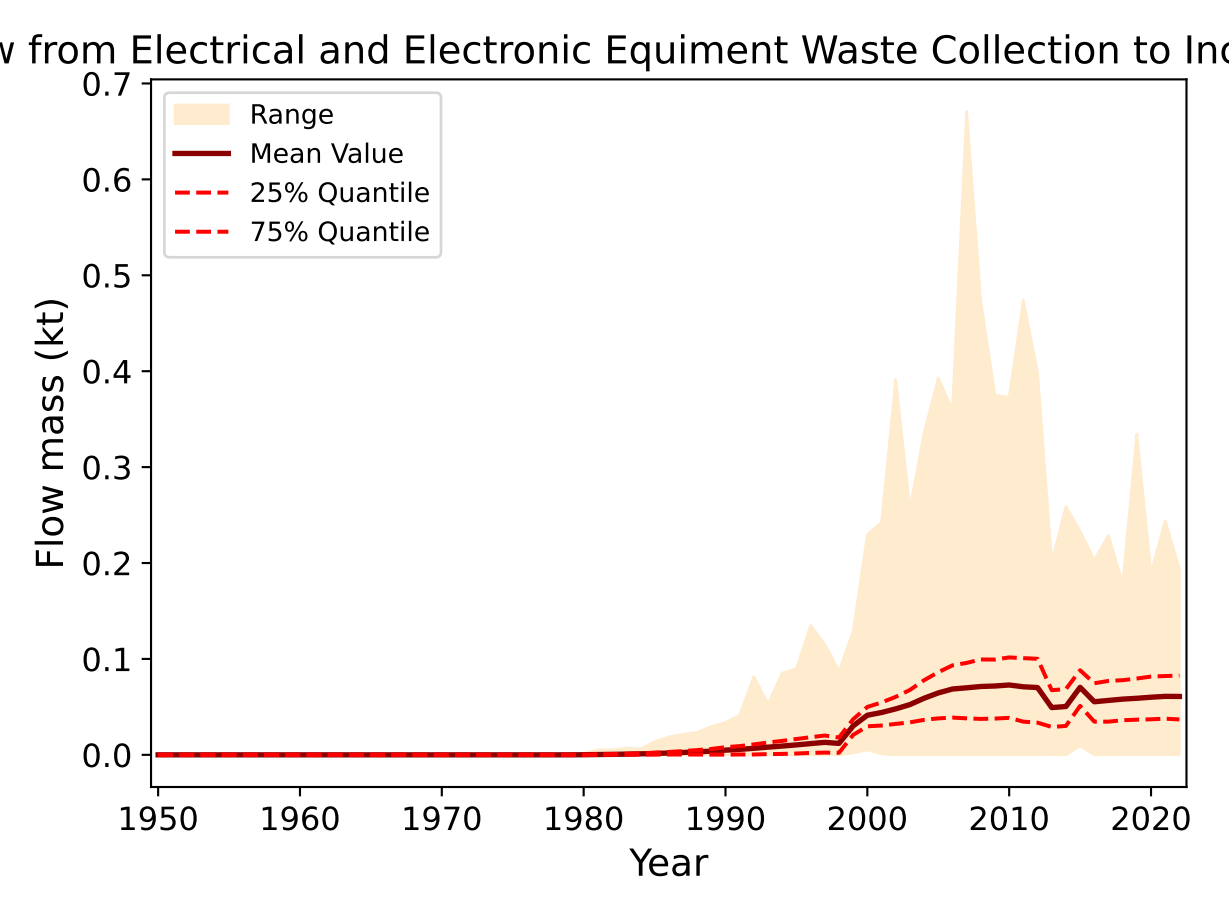

ow from End-Of-Life Vehicle Collection to Automotive Large Parts
Range
Mean Value
25% Quantile
75% Quantile
0.004
0.003
0.002
0.001
0.000
Flow mass (kt)
1950
1960
1970
1980
1990
2000
2010
2020
Year

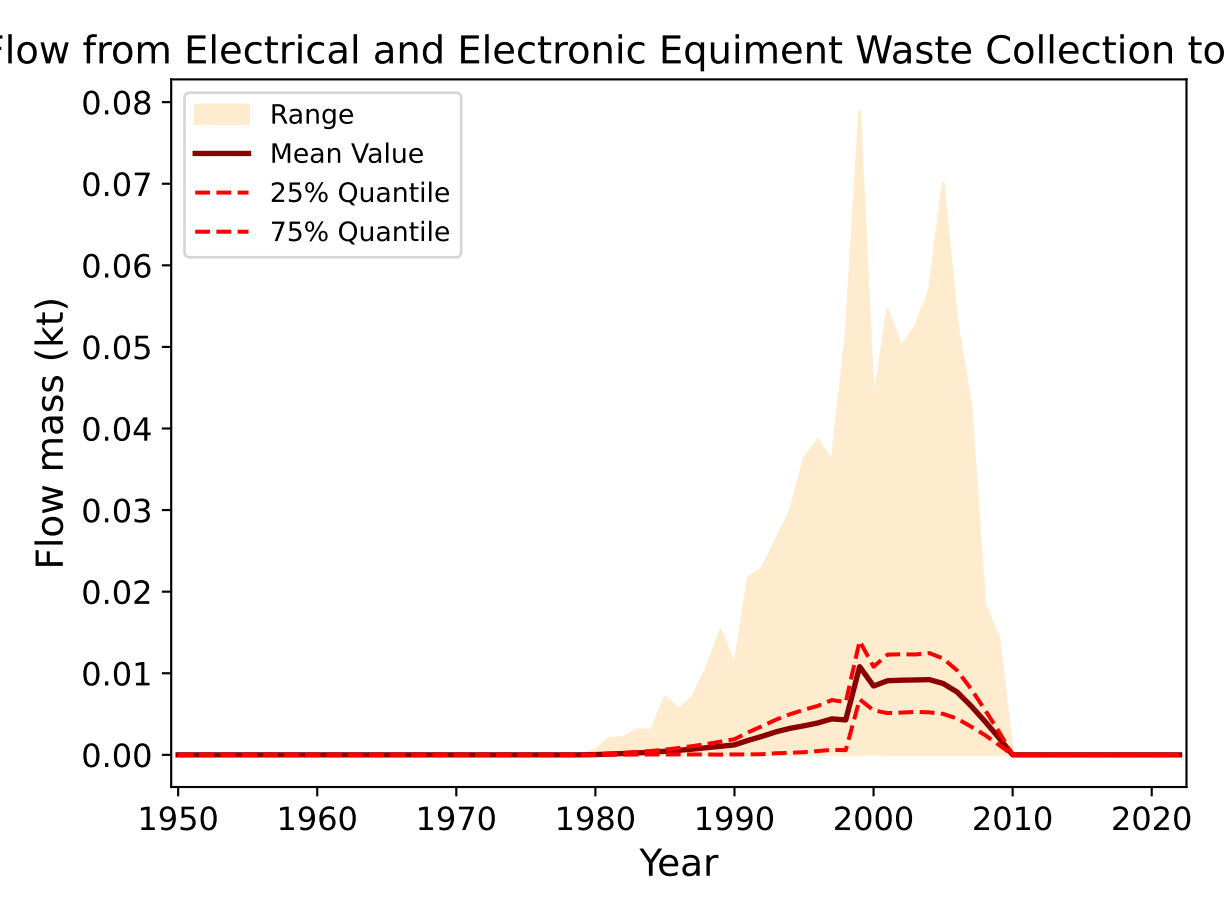

rom End-Of-Life Vehicle Collection to Automotive Shredder Resid
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
1950
1960
1970
1980
1990
2000
2010
2020
Year

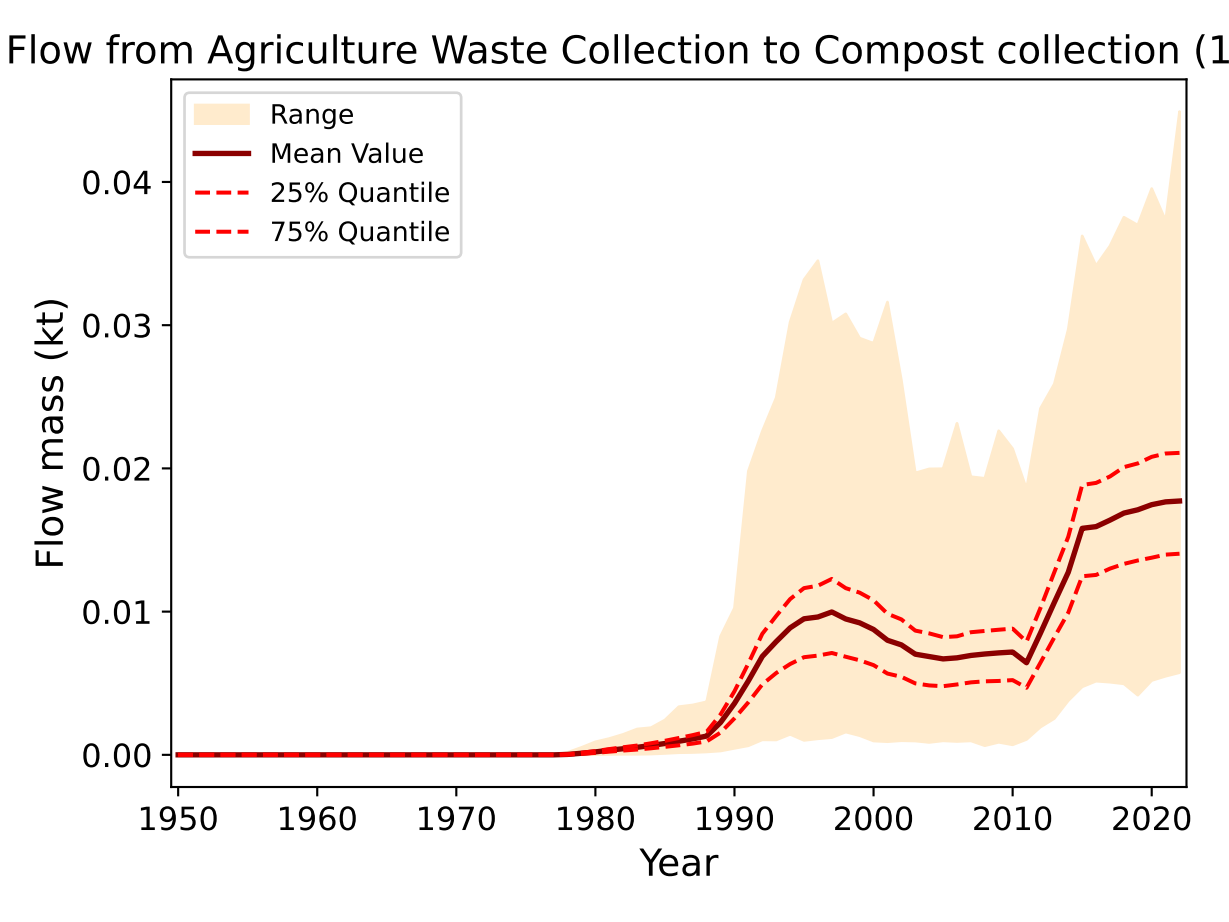

Flow from End-Of-Life Vehicle Textiles Collection to Incinerat
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
1.50
1.25
1.00
0.75
0.50
0.25
0.00
1950
1960
1970
1980
1990
2000
2010
2020
Year

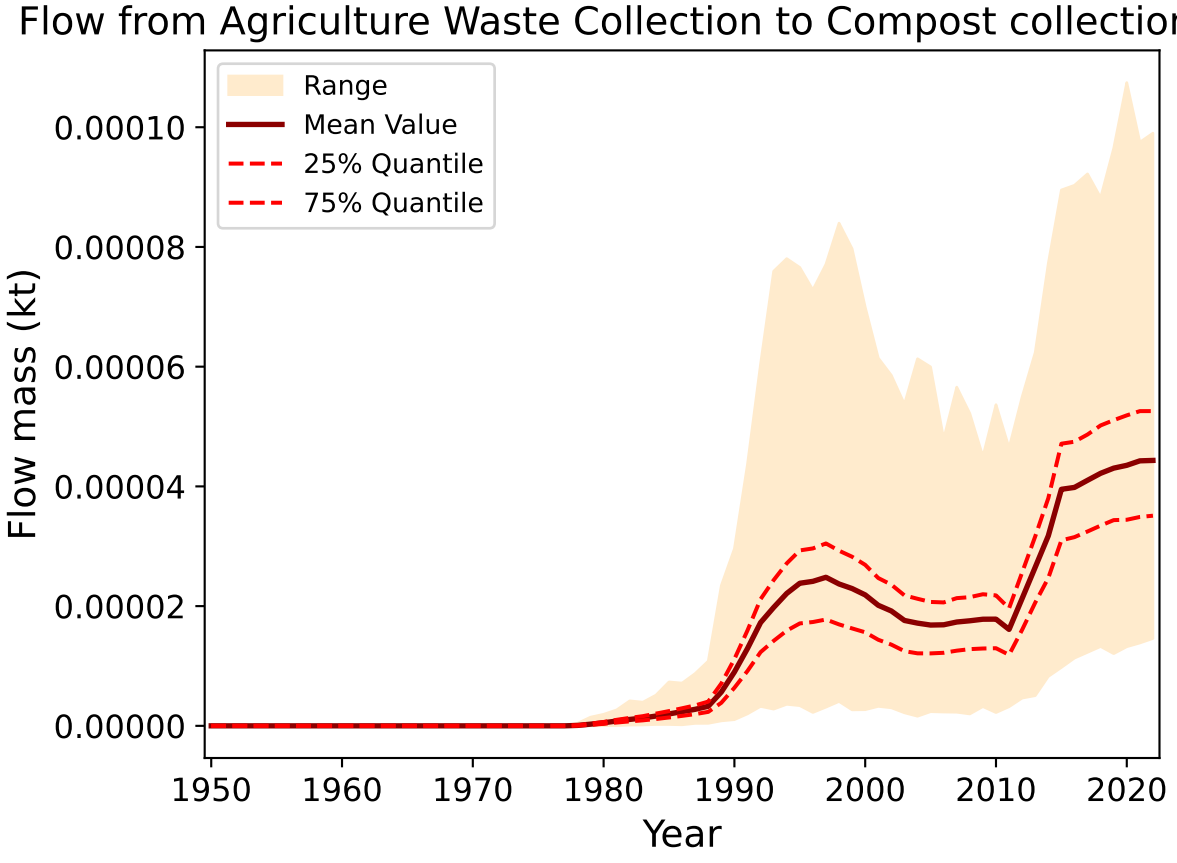

Flow from End-Of-Life Vehicle Textiles Collection to Landfill
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
1950
1960
1970
1980
1990
2000
2010
2020
Year

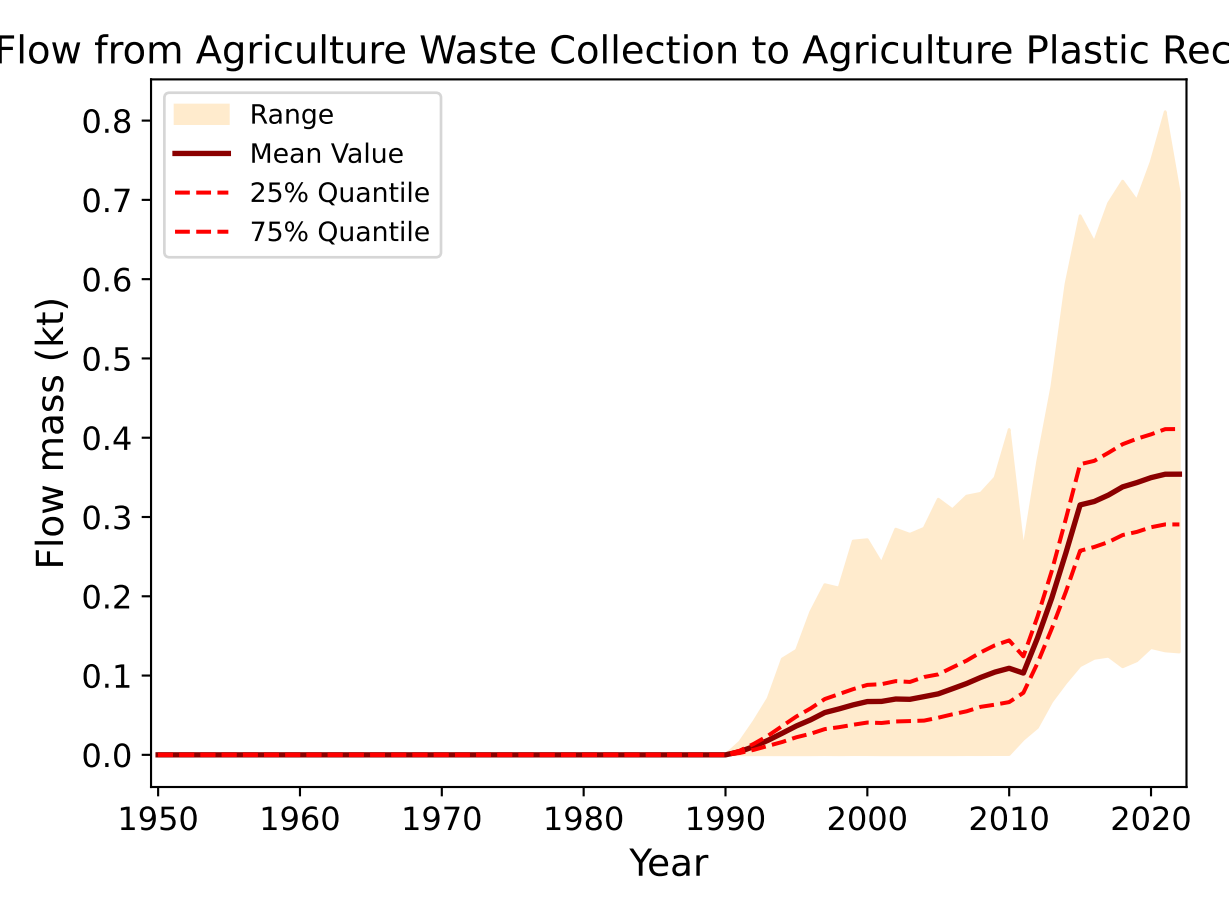

d Electronic Equiment Waste Collection to Waste of Electrical an
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
1950
1960
1970
1980
1990
2000
2010
2020
Year

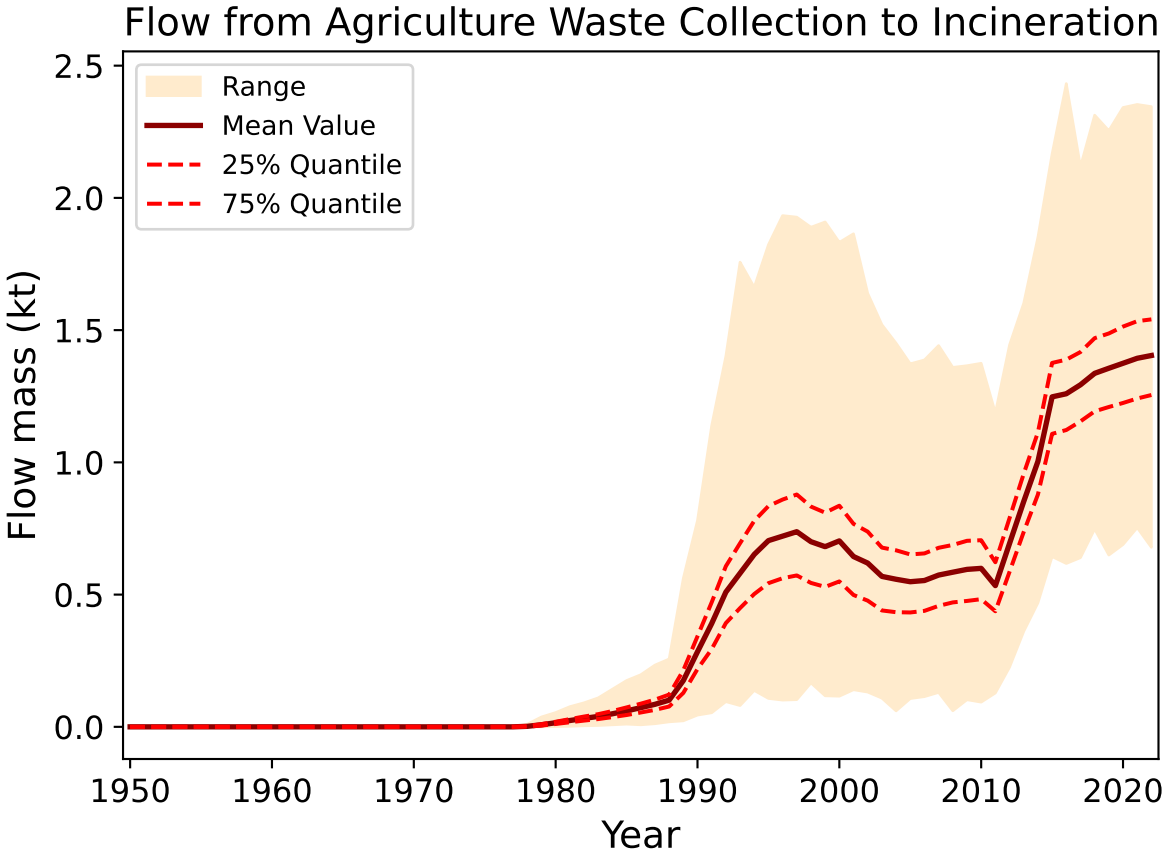

w from Electrical and Electronic Equiment Waste Collection to Inc
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0.0
1950
1960
1970
1980
1990
2000
2010
2020
Year

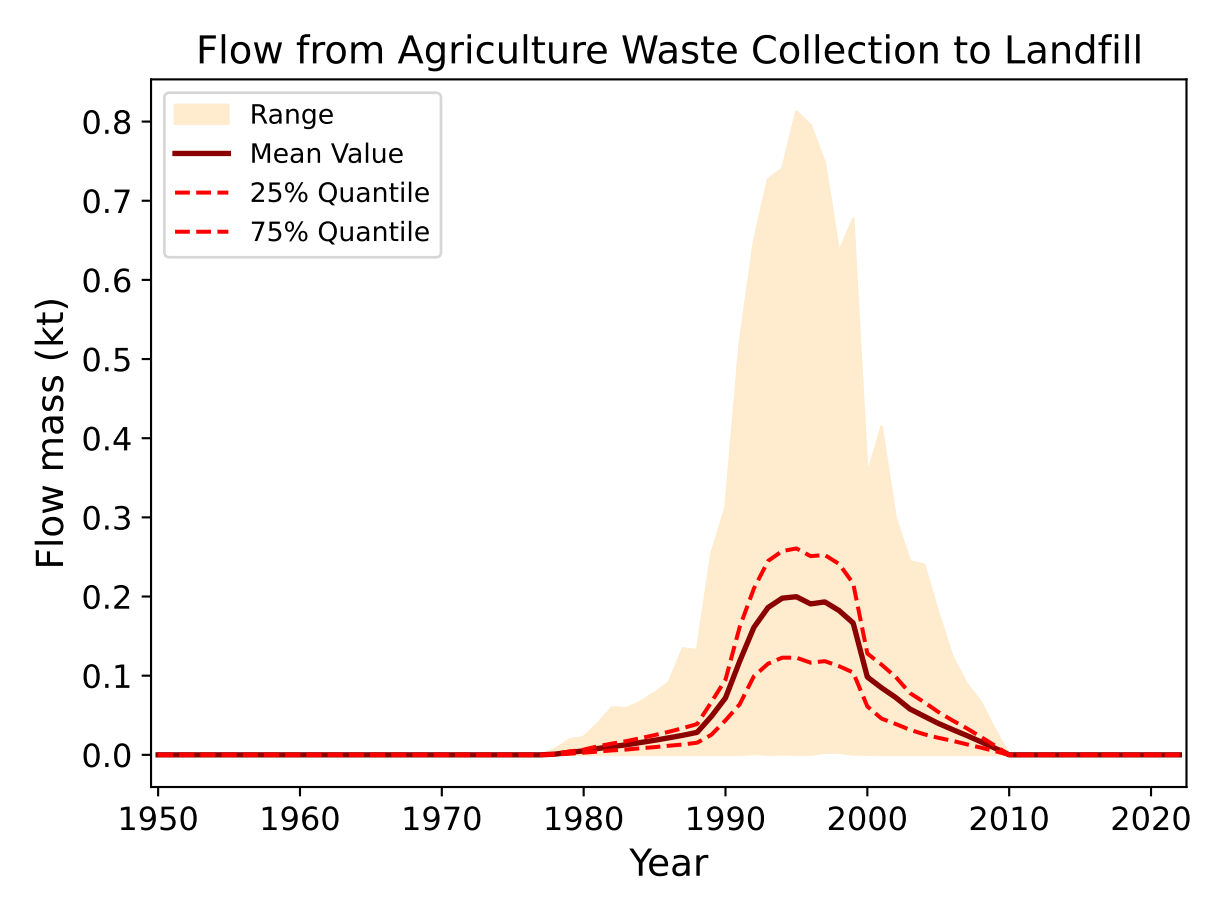

Flow from Electrical and Electronic Equiment Waste Collection to
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.08
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
1950
1960
1970
1980
1990
2000
2010
2020
Year

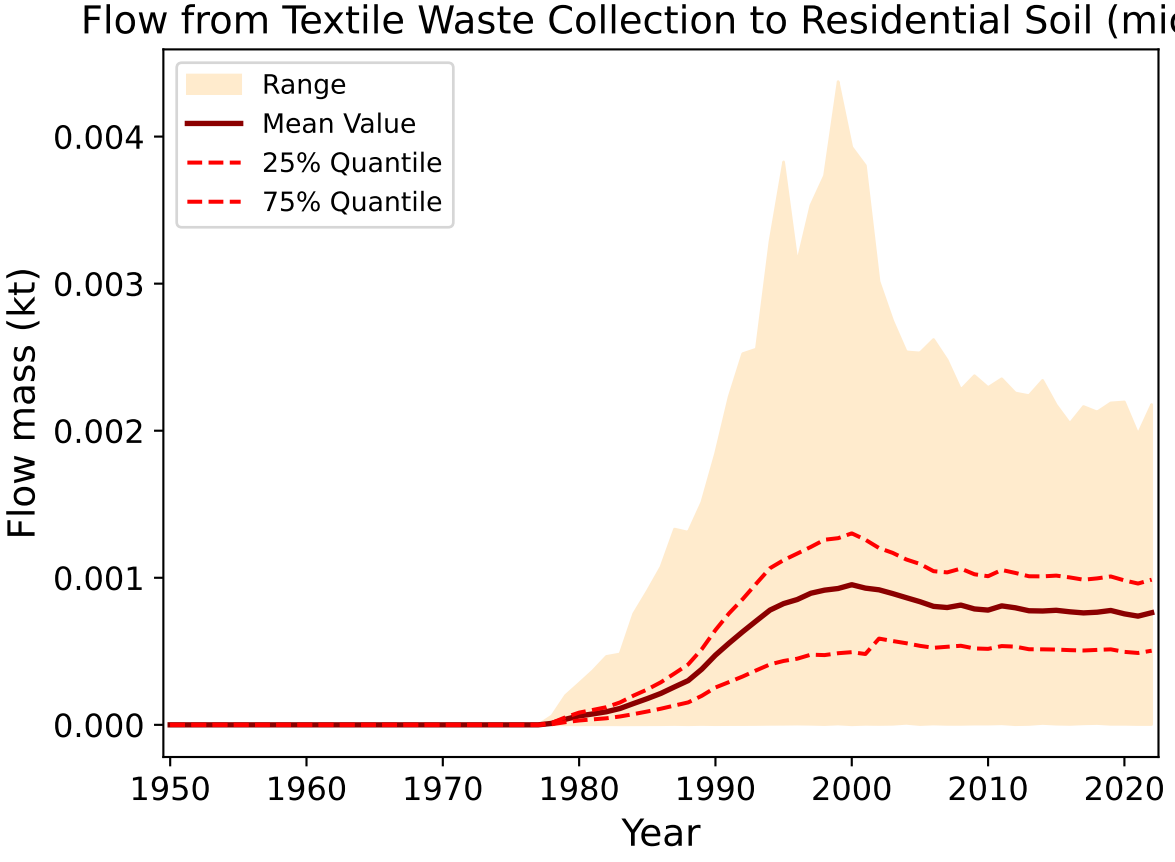

Flow from Agriculture Waste Collection to Compost collection (1
Range
Mean Value
25% Quantile
75% Quantile
0.04
0.03
0.02
0.01
0.00
Flow mass (kt)
1950
1960
1970
1980
1990
2000
2010
2020
Year

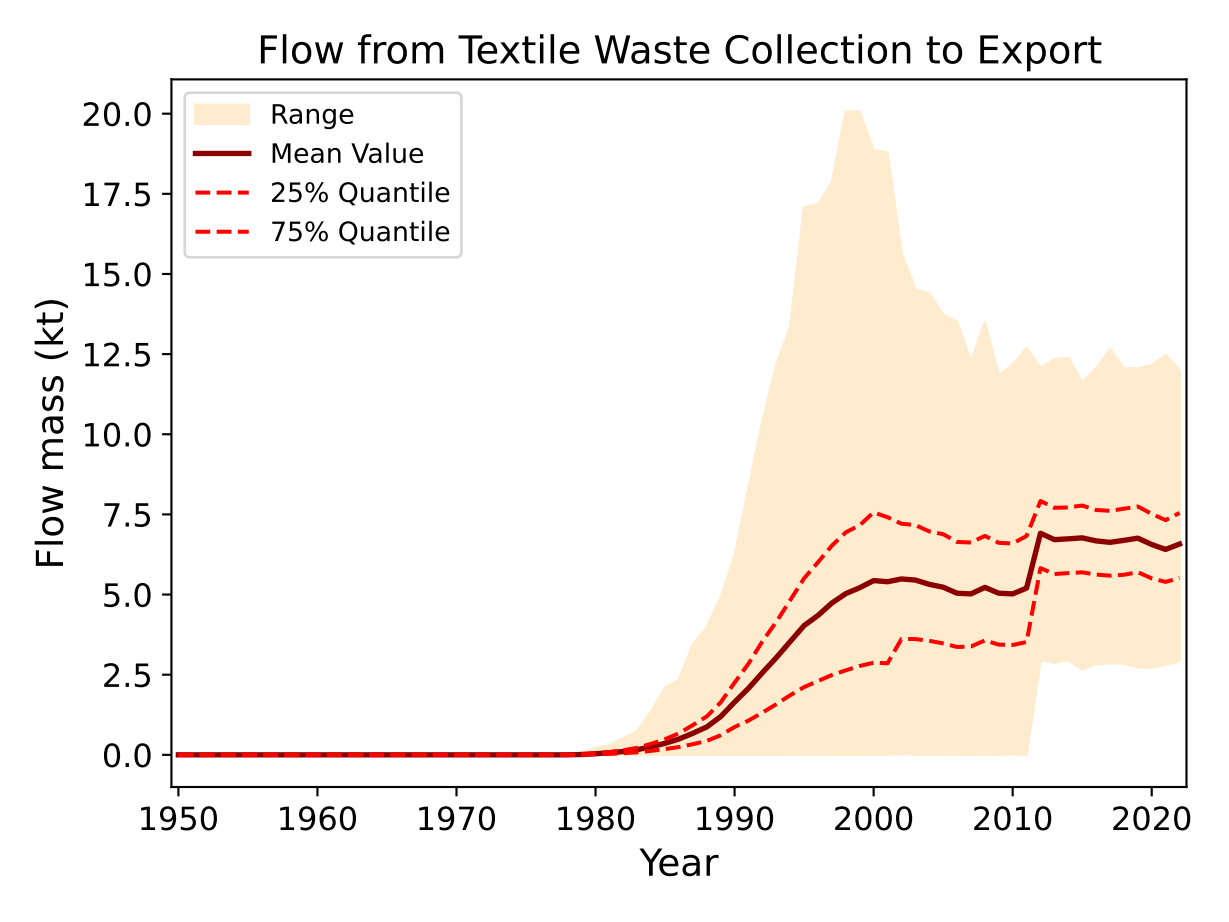

Flow from Agriculture Waste Collection to Compost collection
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.00010
0.00008
0.00006
0.00004
0.00002
0.00000
1950
1960
1970
1980
1990
2000
2010
2020
Year

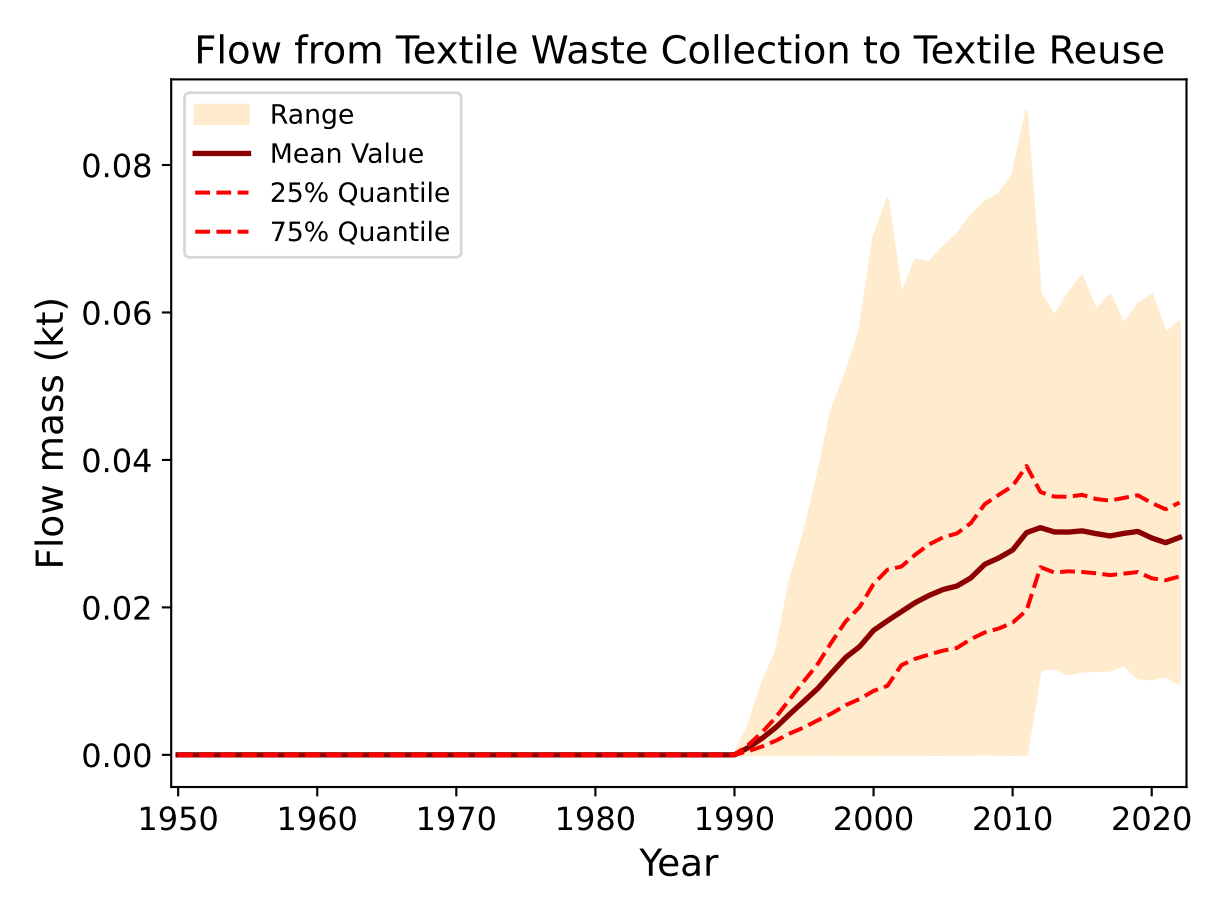

Flow from Agriculture Waste Collection to Agriculture Plastic Rec
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
1950
1960
1970
1980
1990
2000
2010
2020
Year

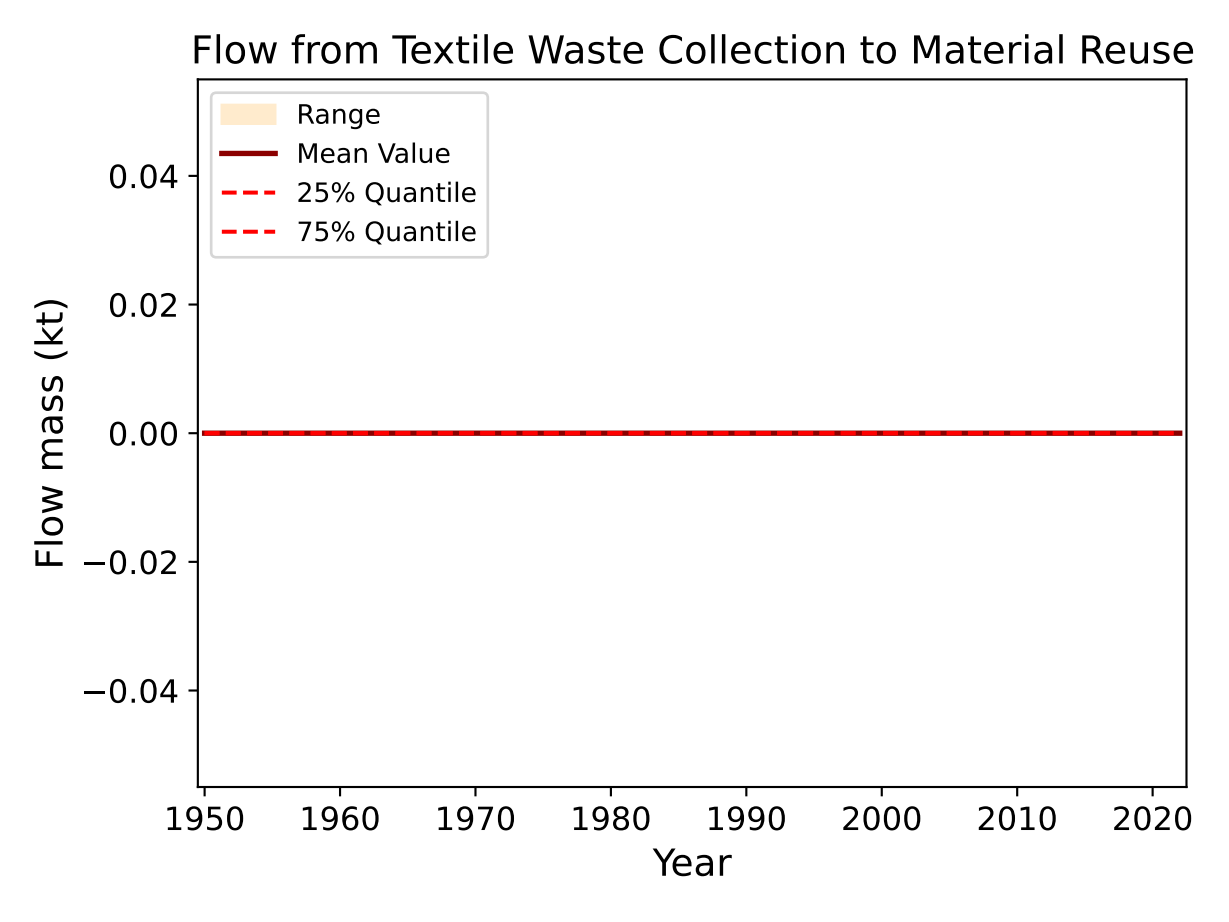

Flow from Agriculture Waste Collection to Incineration
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
2.5
2.0
1.5
1.0
0.5
0.0
1950
1960
1970
1980
1990
2000
2010
2020
Year

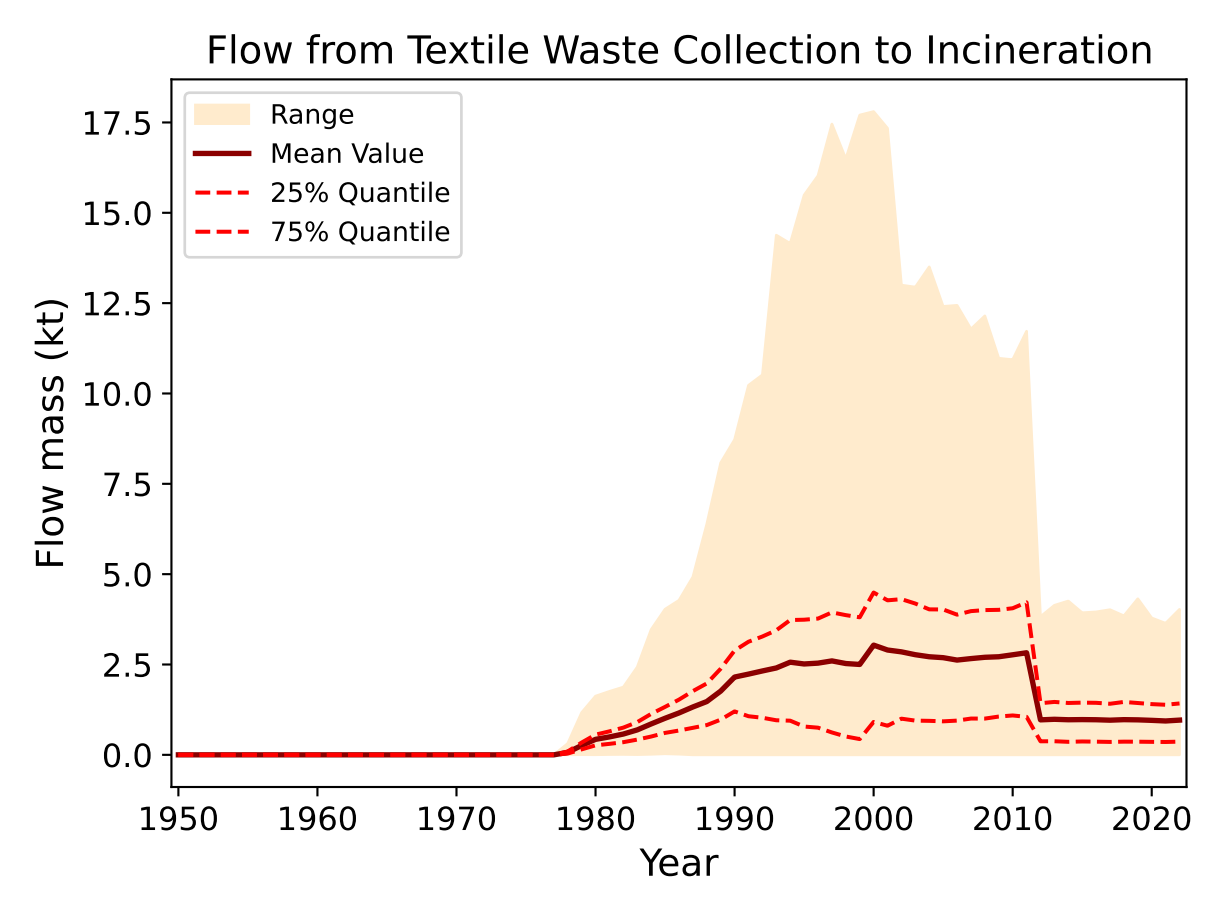

Flow from Agriculture Waste Collection to Landfill
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
0.8
1950
1960
1970
1980
1990
2000
2010
2020
Year

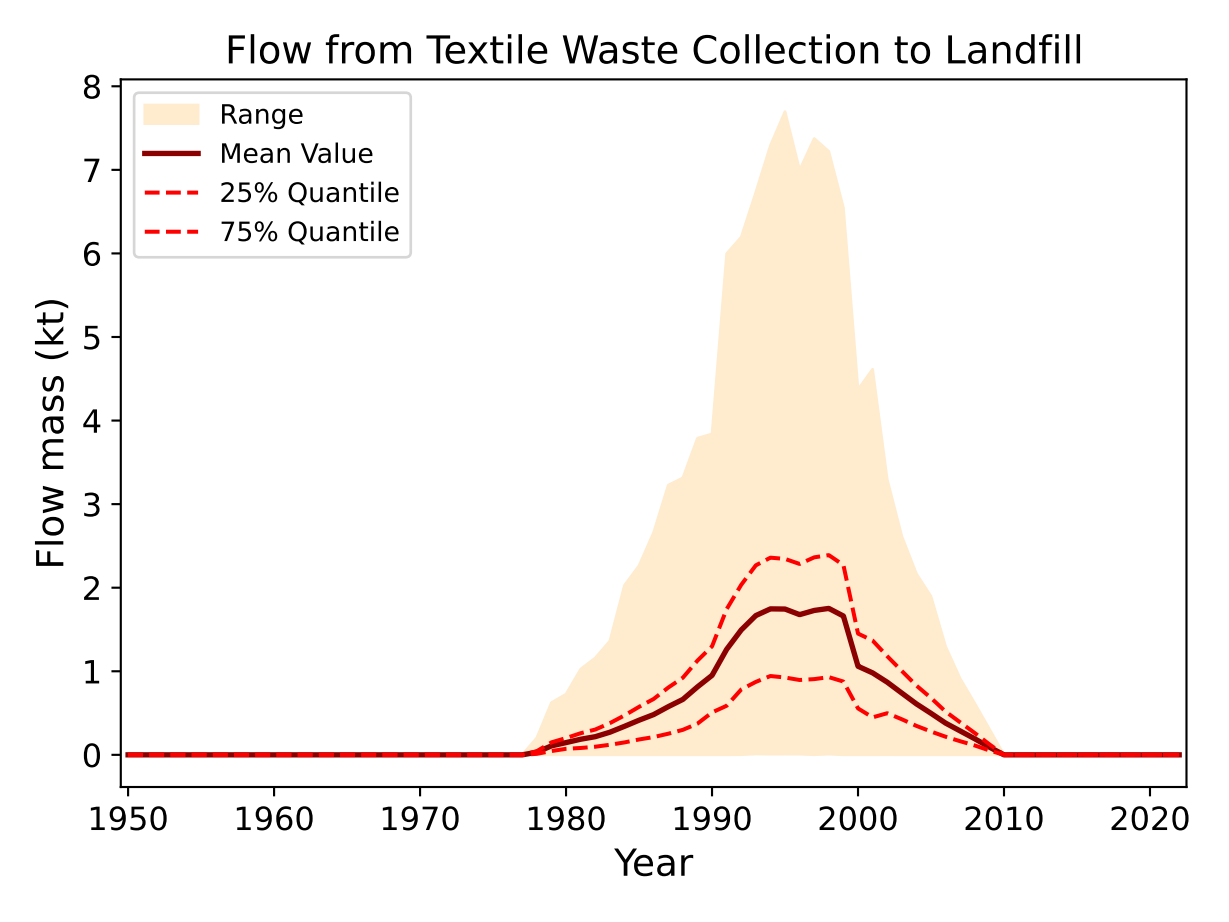

Flow from Textile Waste Collection to Residential Soil (micr
Range
Mean Value
25% Quantile
75% Quantile
0.004
0.003
0.002
0.001
0.000
Flow mass (kt)
1950
1960
1970
1980
1990
2000
2010
2020
Year

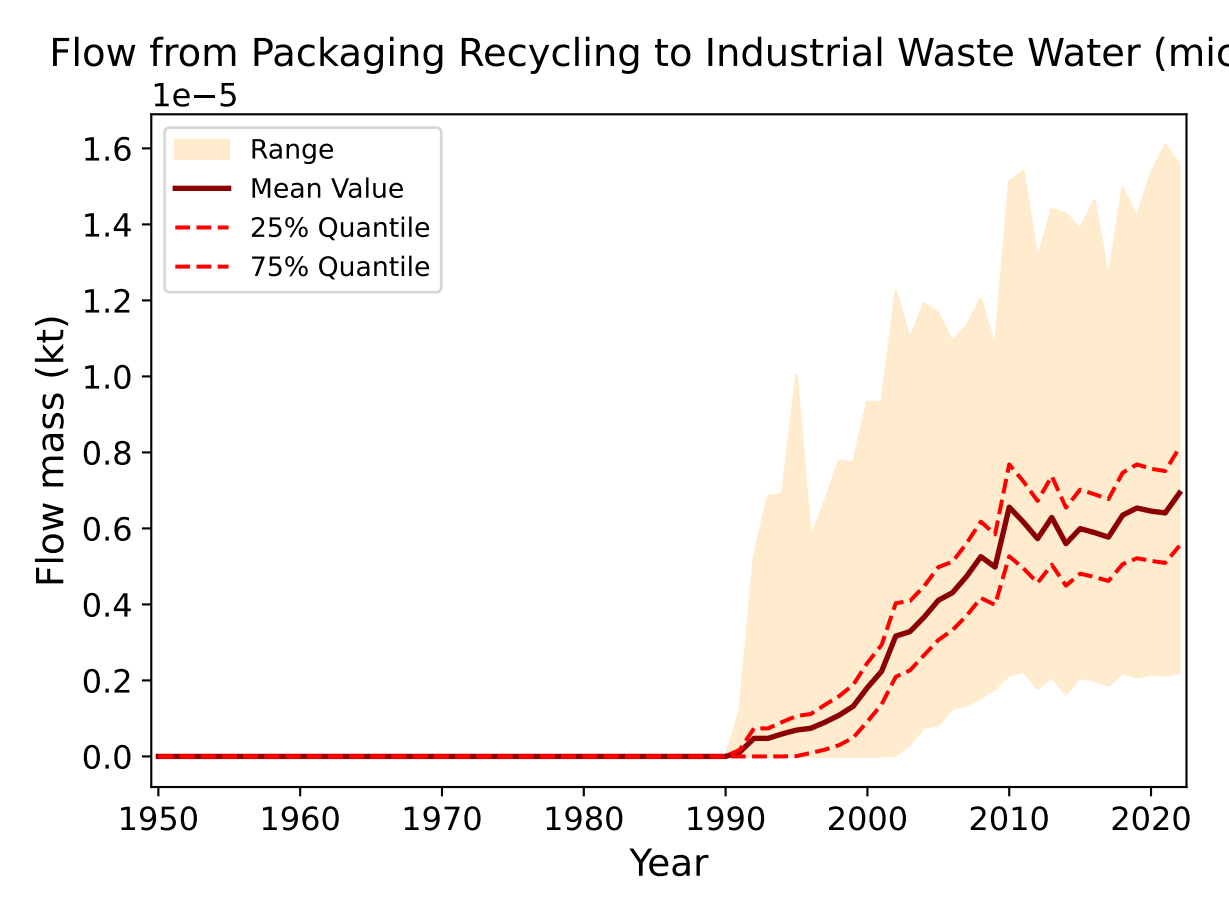

Flow from Textile Waste Collection to Export
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
20.0
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0.0
1950
1960
1970
1980
1990
2000
2010
2020
Year

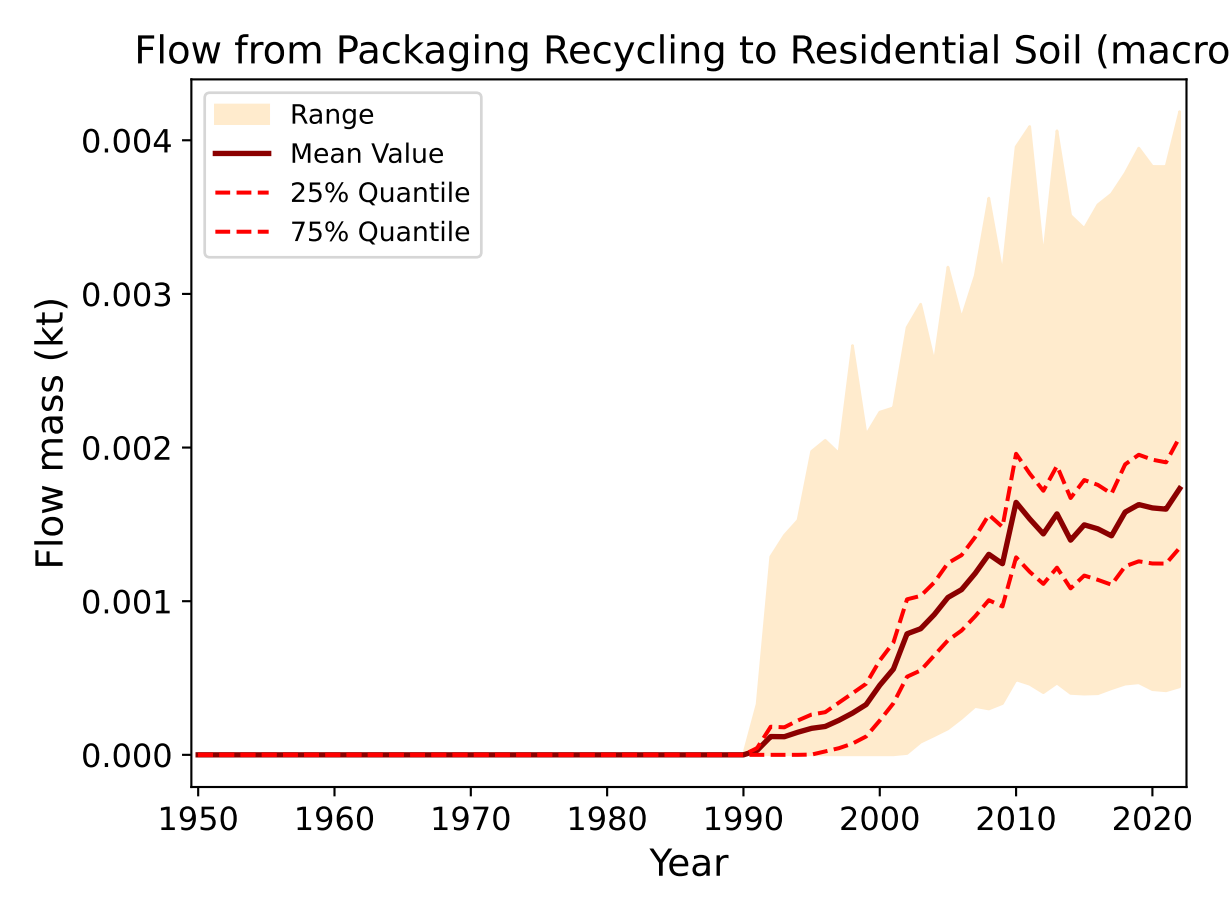

Flow from Textile Waste Collection to Textile Reuse
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.00
0.02
0.04
0.06
0.08
1950
1960
1970
1980
1990
2000
2010
2020
Year

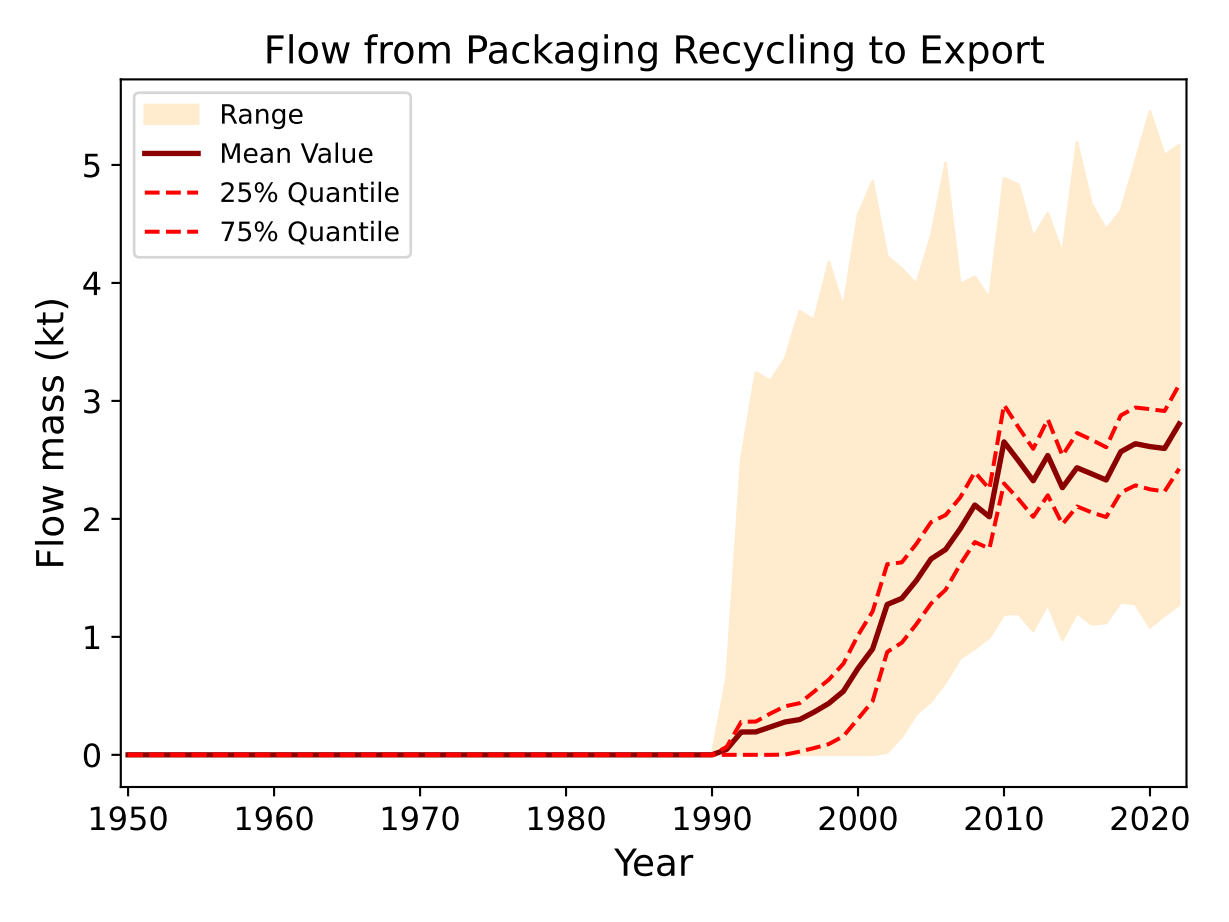

Flow from Textile Waste Collection to Material Reuse
Range
Mean Value
25% Quantile
75% Quantile
0.04
0.02
0.00
−0.02
−0.04
Flow mass (kt)
1950
1960
1970
1980
1990
2000
2010
2020
Year

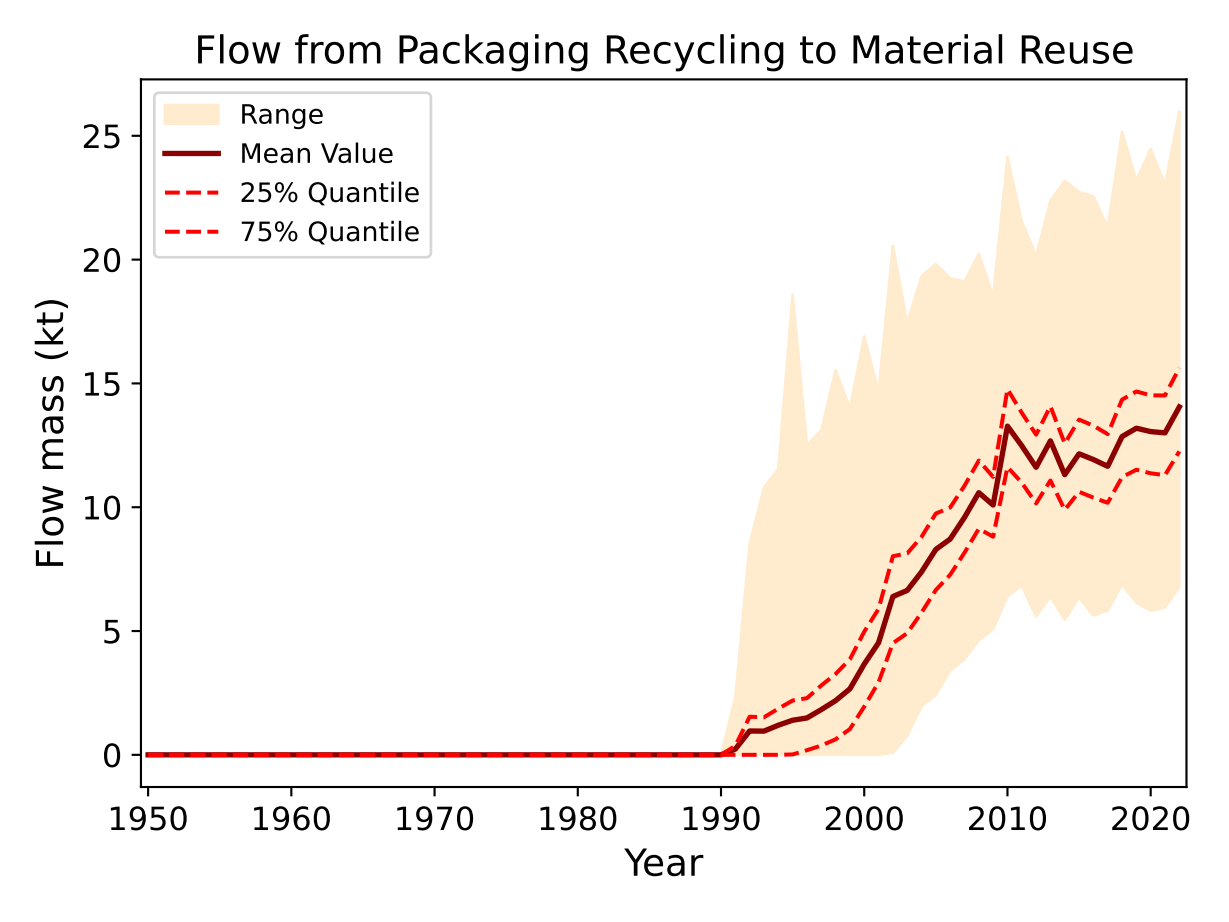

Flow from Textile Waste Collection to Incineration
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
17.5
15.0
12.5
10.0
7.5
5.0
2.5
0.0
1950
1960
1970
1980
1990
2000
2010
2020
Year

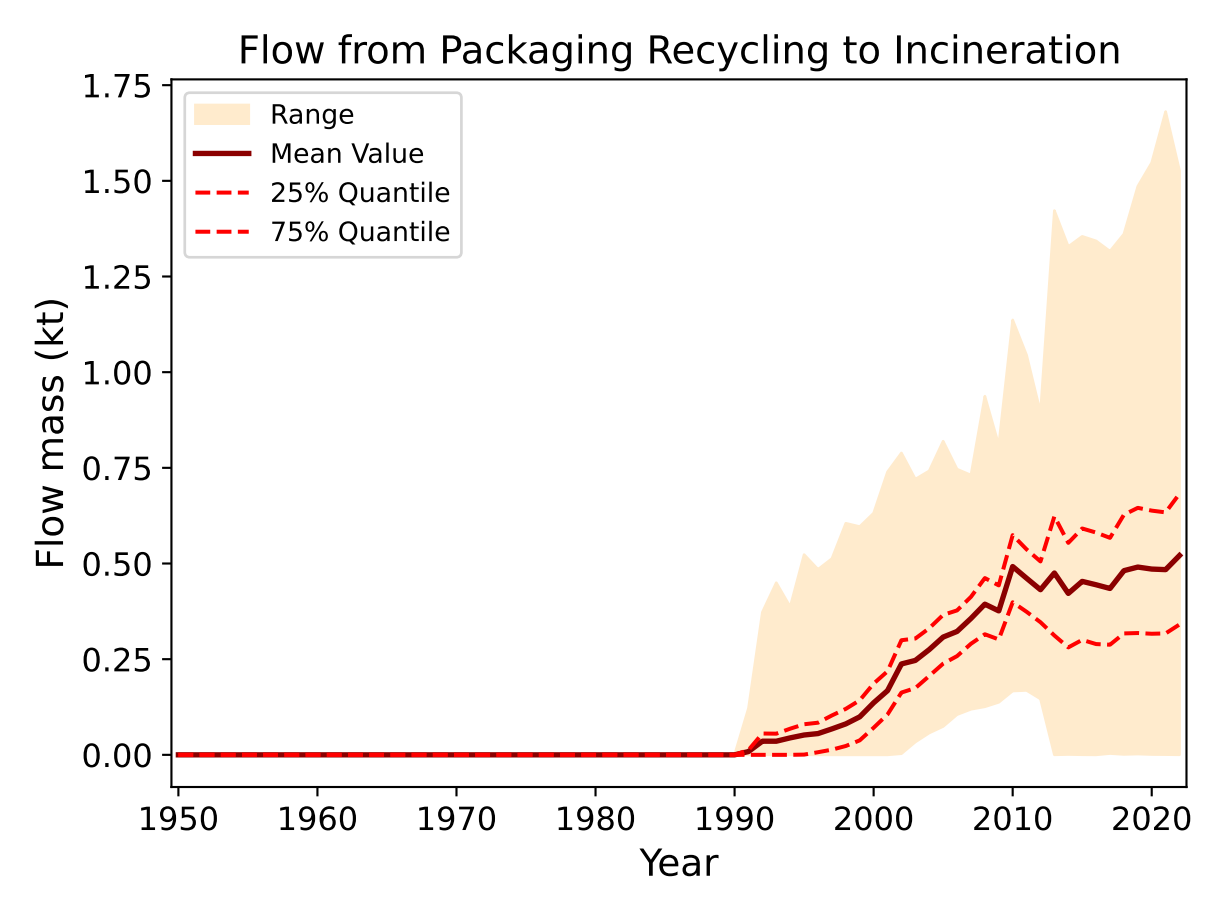

Flow from Textile Waste Collection to Landfill
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
1
2
3
4
5
6
7
8
1950
1960
1970
1980
1990
2000
2010
2020
Year

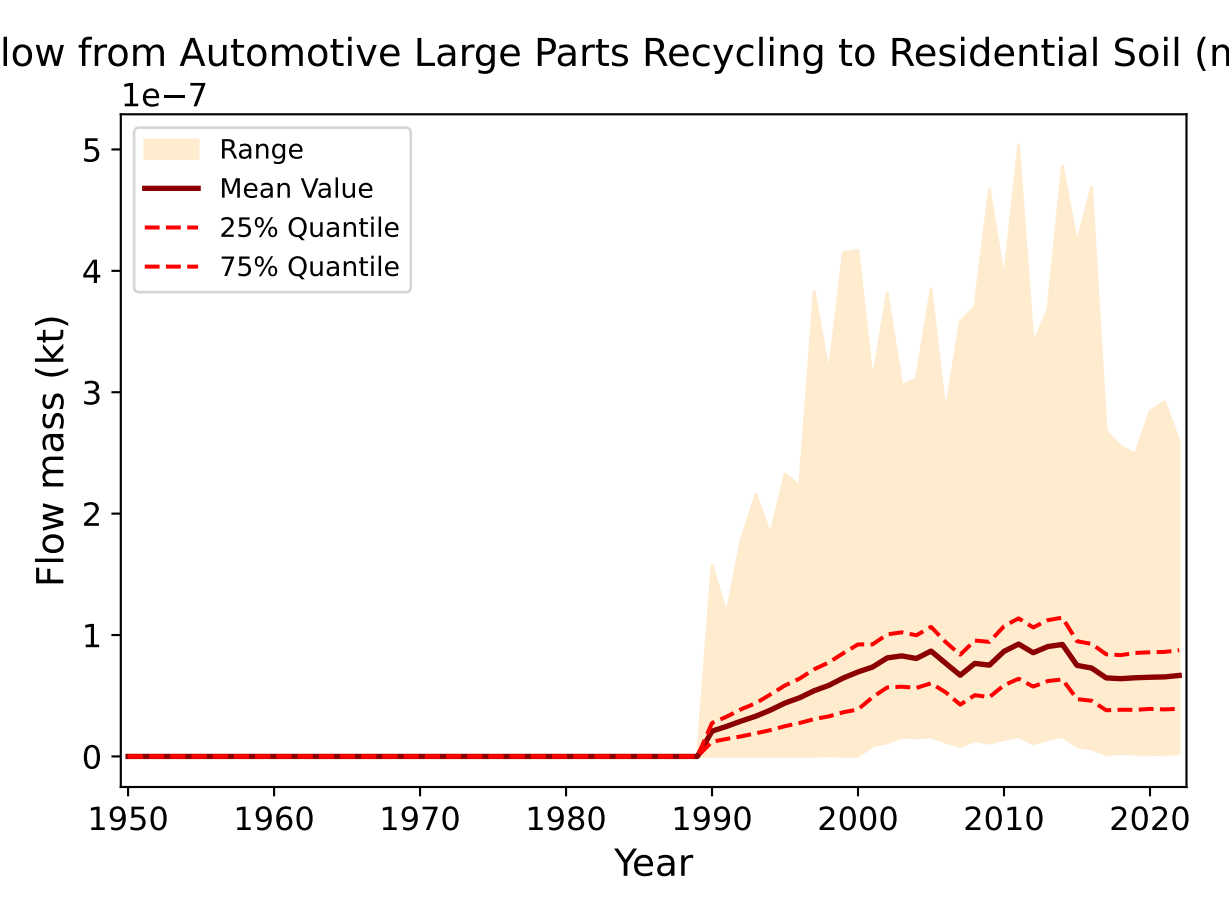

Flow from Packaging Recycling to Industrial Waste Water (mic
1e−5
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
1950
1960
1970
1980
1990
2000
2010
2020
Year

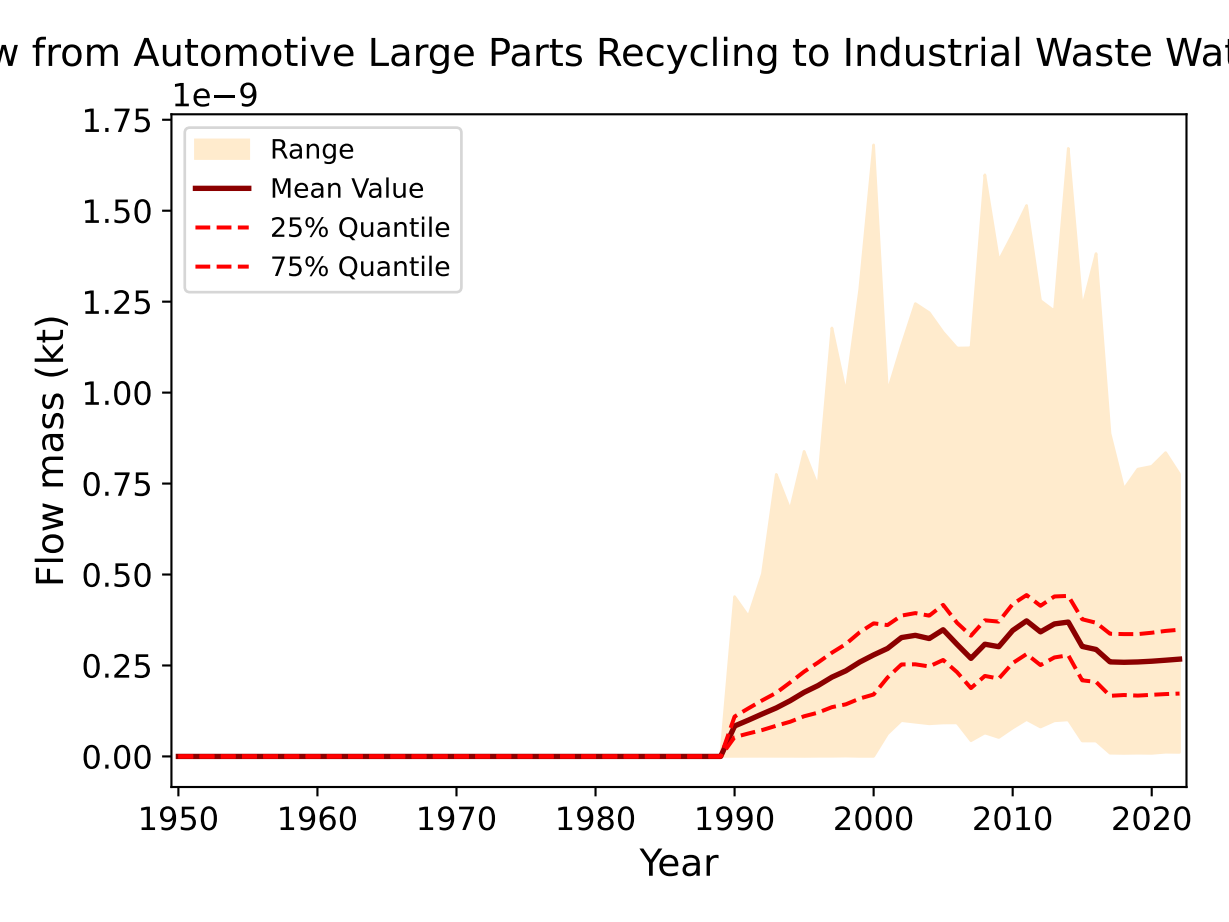

Flow from Packaging Recycling to Residential Soil (macro
Range
Mean Value
25% Quantile
75% Quantile
0.004
0.003
0.002
0.001
0.000
Flow mass (kt)
1950
1960
1970
1980
1990
2000
2010
2020
Year

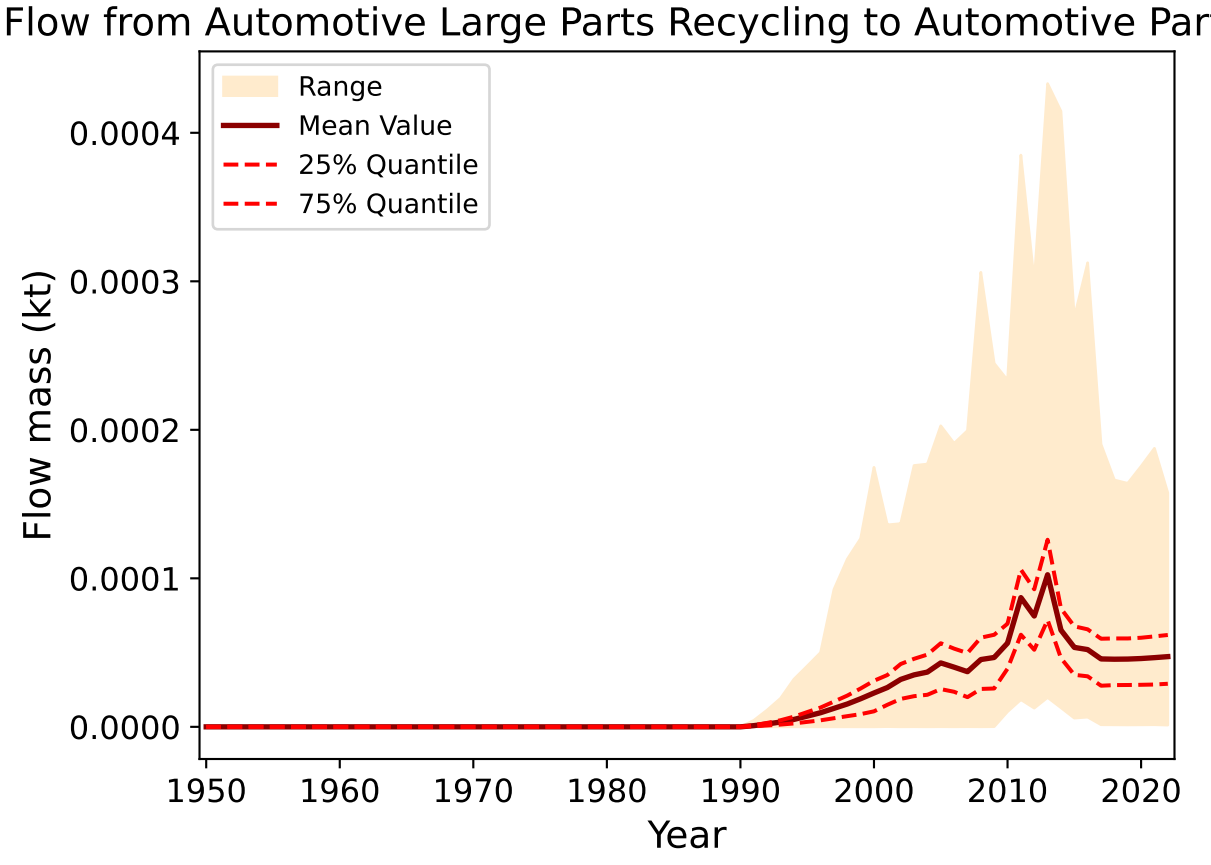

Flow from Packaging Recycling to Export
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
1
2
3
4
5
1950
1960
1970
1980
1990
2000
2010
2020
Year

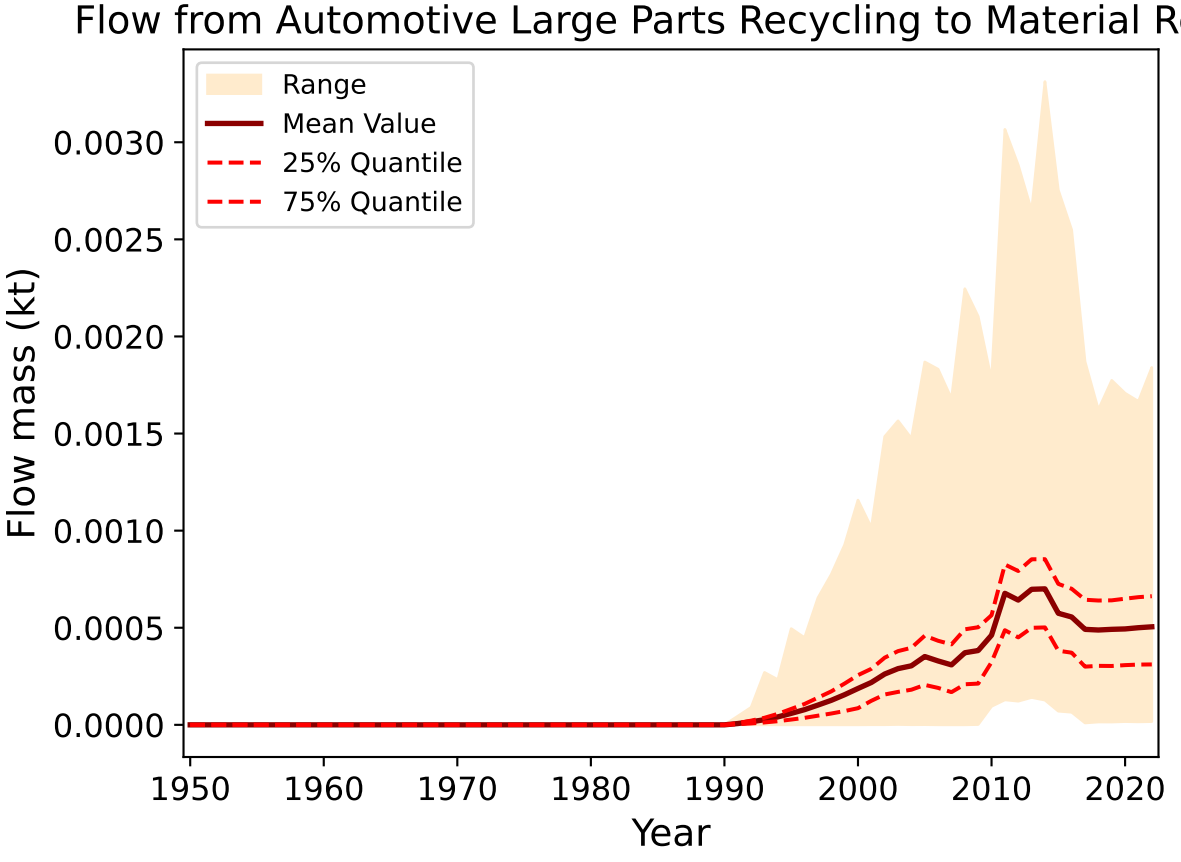

Flow from Packaging Recycling to Material Reuse
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
5
10
15
20
25
1950
1960
1970
1980
1990
2000
2010
2020
Year

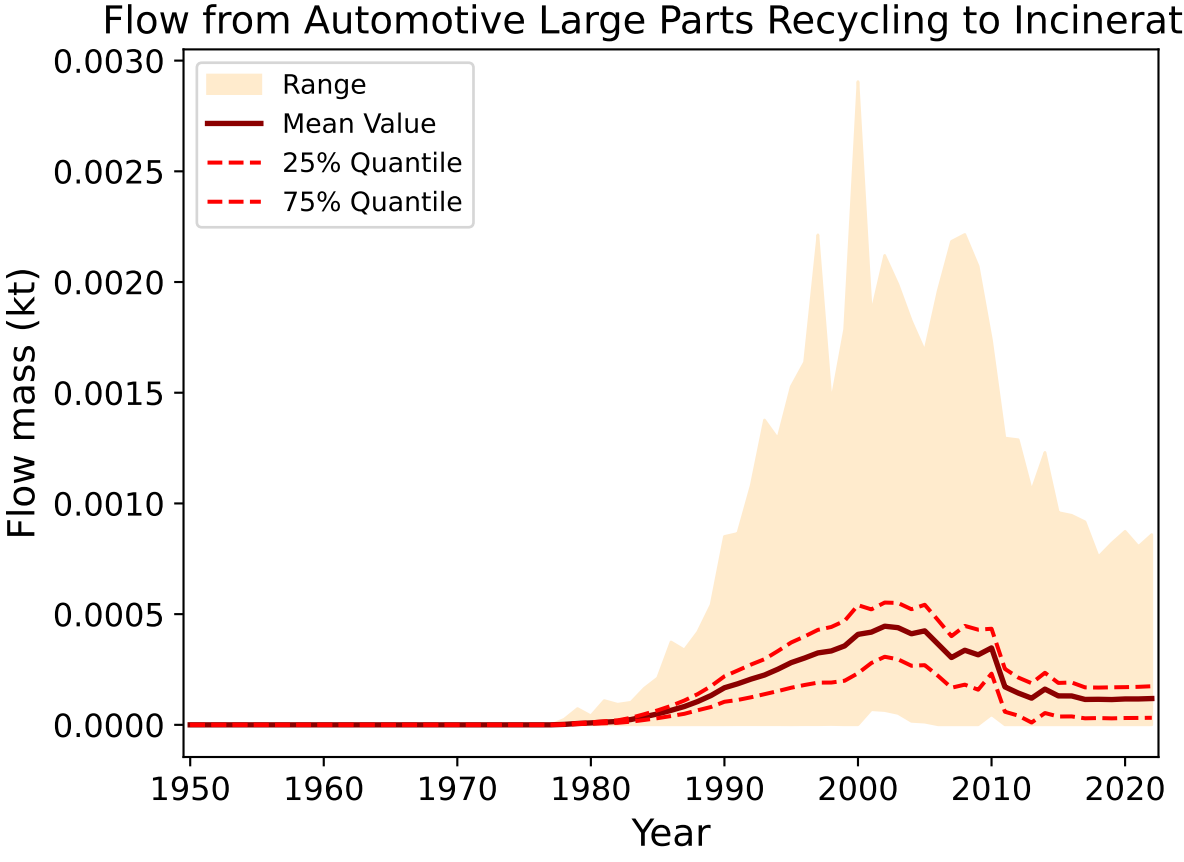

Flow from Packaging Recycling to Incineration
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
1.75
1.50
1.25
1.00
0.75
0.50
0.25
0.00
1950
1960
1970
1980
1990
2000
2010
2020
Year

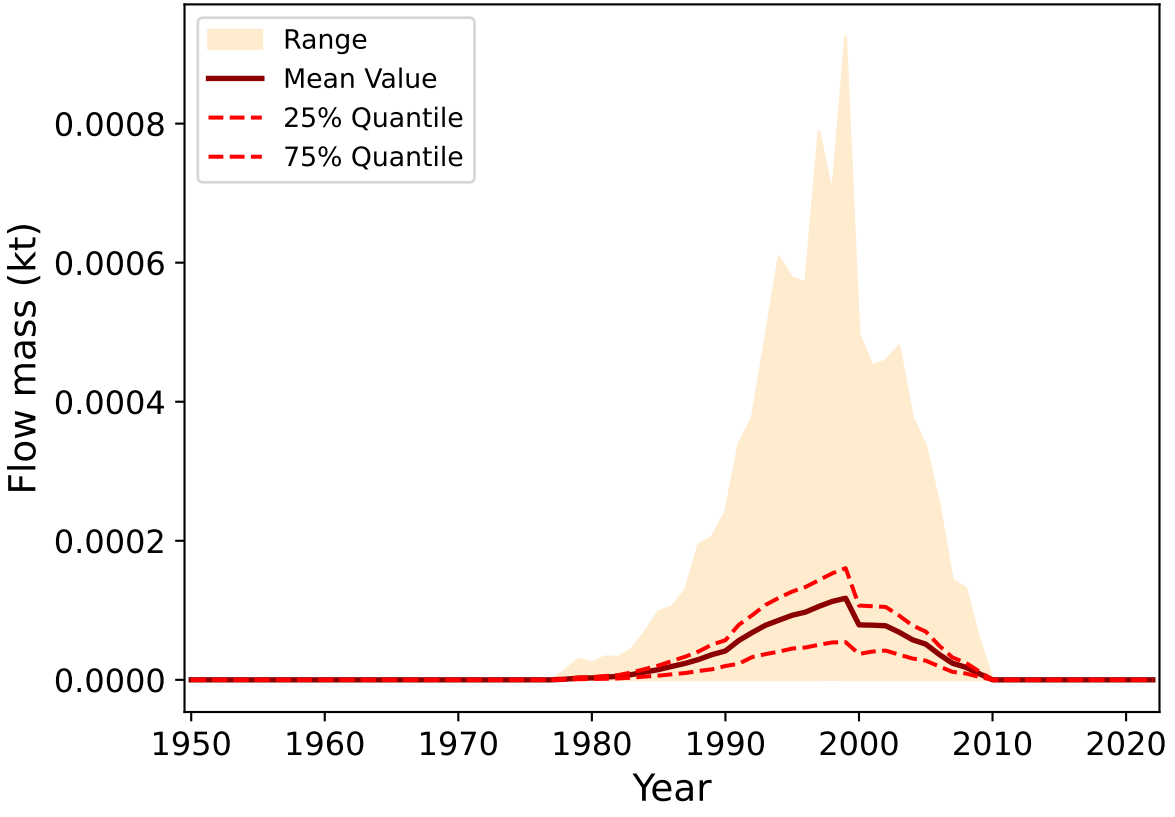

low from Automotive Large Parts Recycling to Residential Soil (n
1e−7
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
1
2
3
4
5
1950
1960
1970
1980
1990
2000
2010
2020
Year

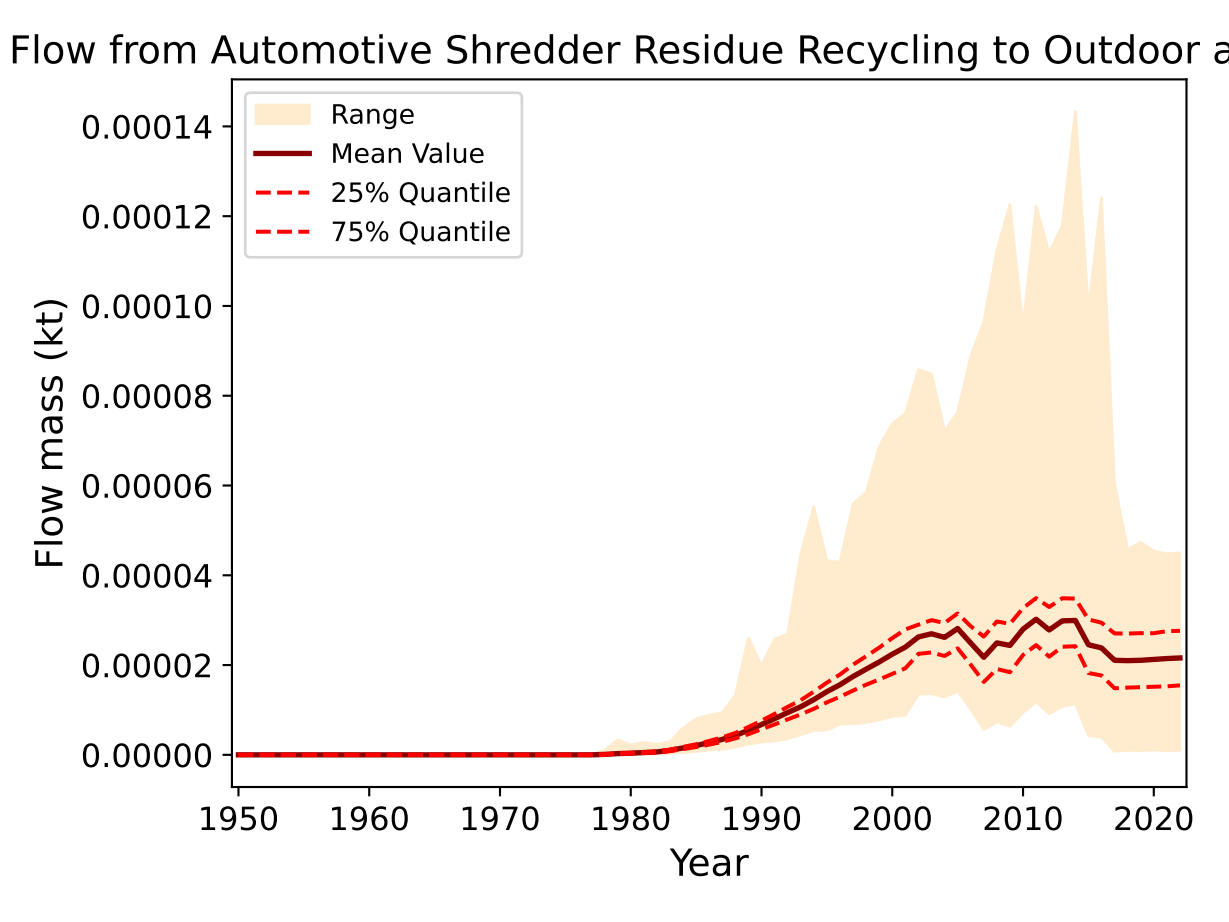

w from Automotive Large Parts Recycling to Industrial Waste Wat
1e−9
1.75
1.50
1.25
1.00
0.75
0.50
0.25
0.00
Flow mass (kt)
Range
Mean Value
25% Quantile
75% Quantile
1950
1960
1970
1980
1990
2000
2010
2020
Year

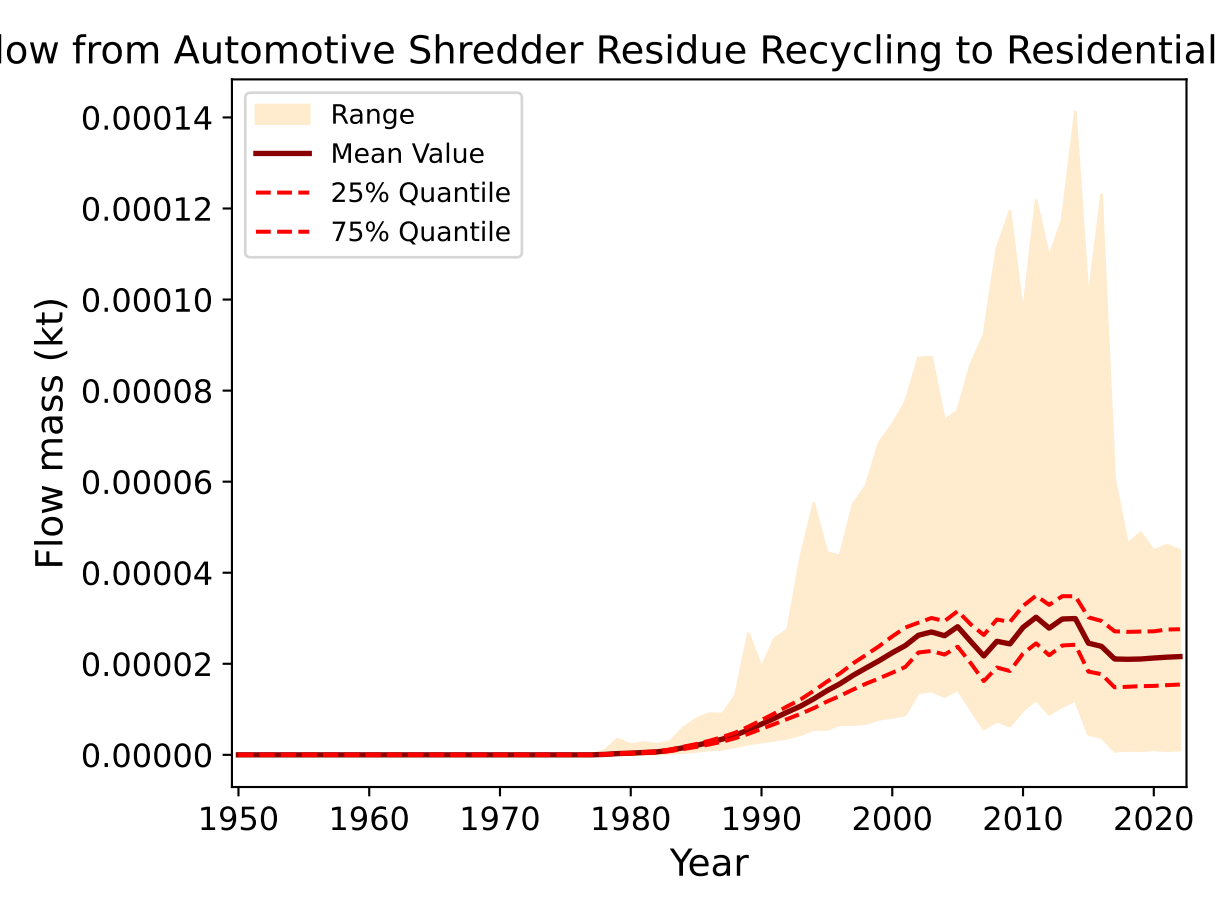

Flow from Automotive Large Parts Recycling to Automotive Part
Range
Mean Value
25% Quantile
75% Quantile
0.0004
0.0003
0.0002
0.0001
0.0000
Flow mass (kt)
1950
1960
1970
1980
1990
2000
2010
2020
Year

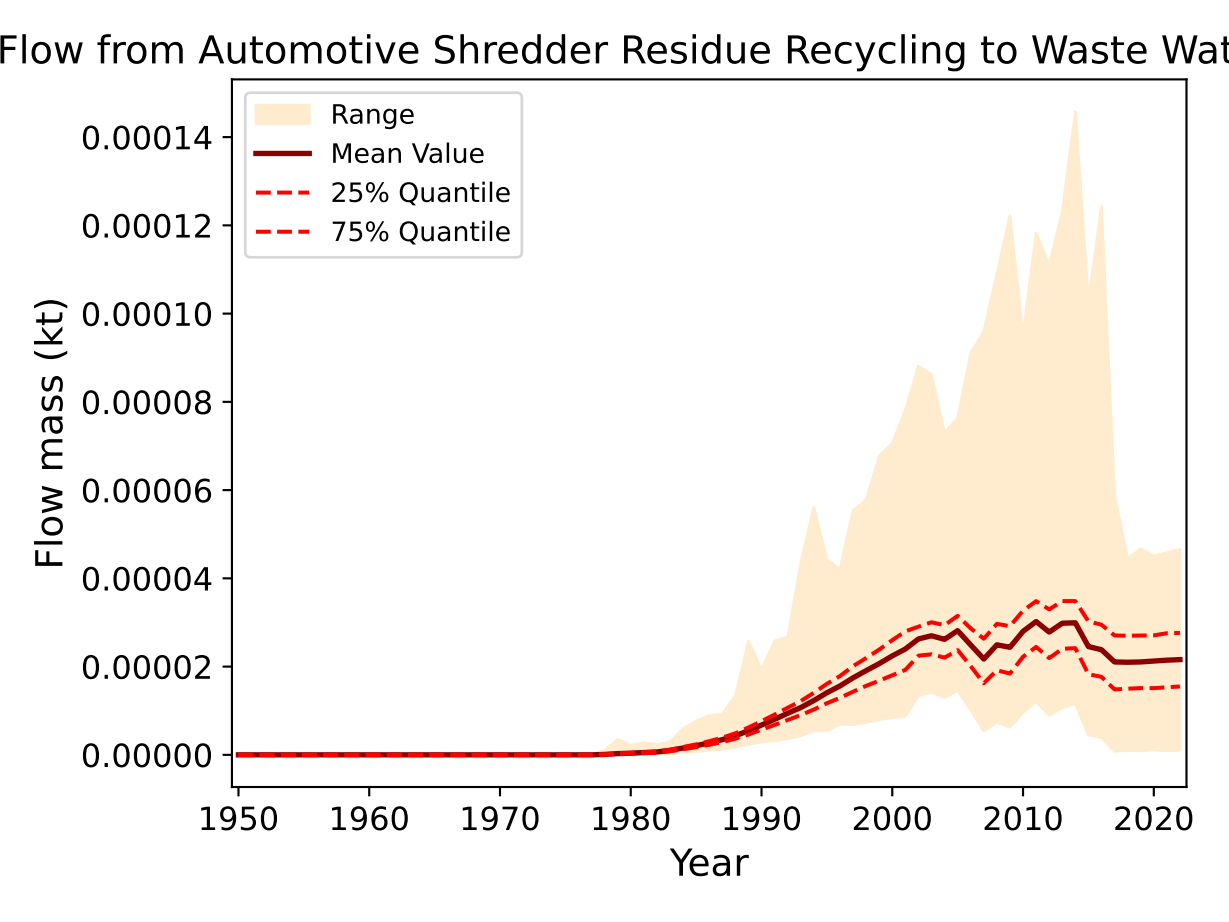

Flow from Automotive Large Parts Recycling to Material Re
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
1950
1960
1970
1980
1990
2000
2010
2020
Year

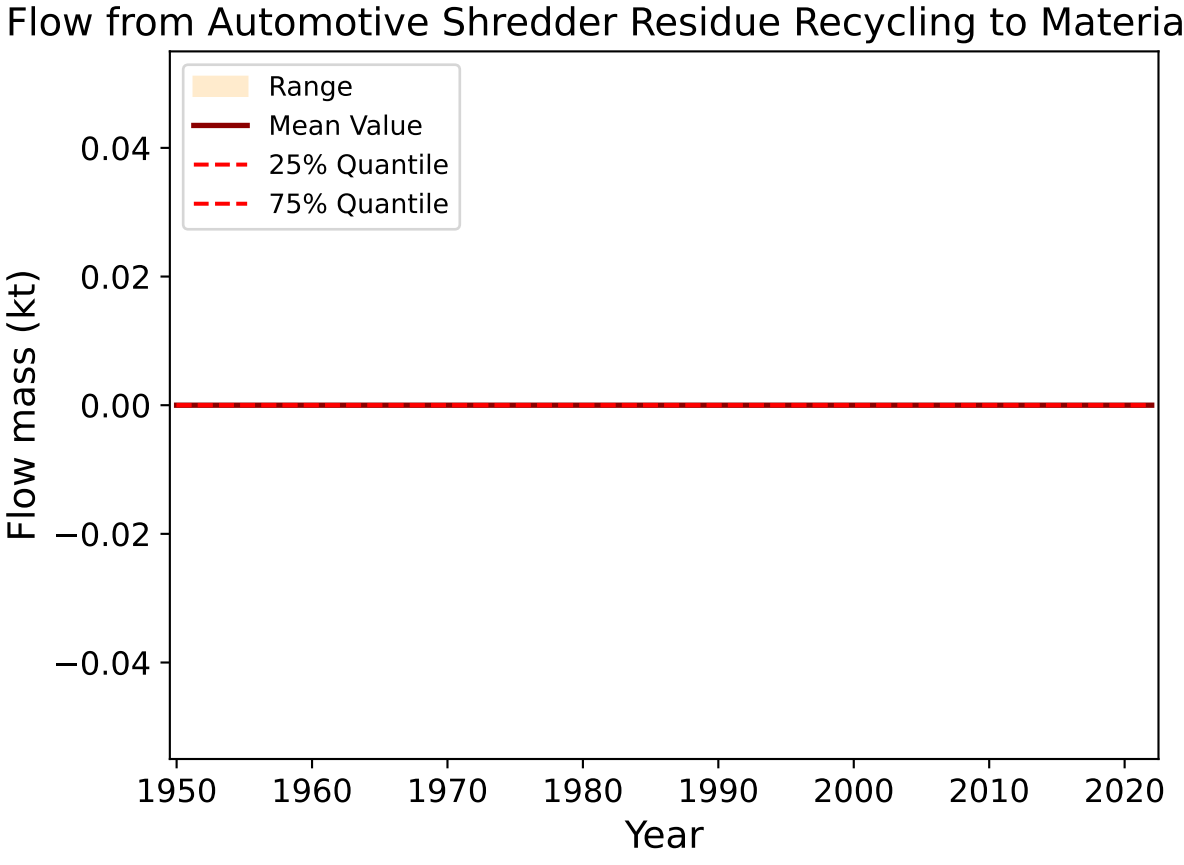

Flow from Automotive Large Parts Recycling to Incineratio
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
1950
1960
1970
1980
1990
2000
2010
2020
Year

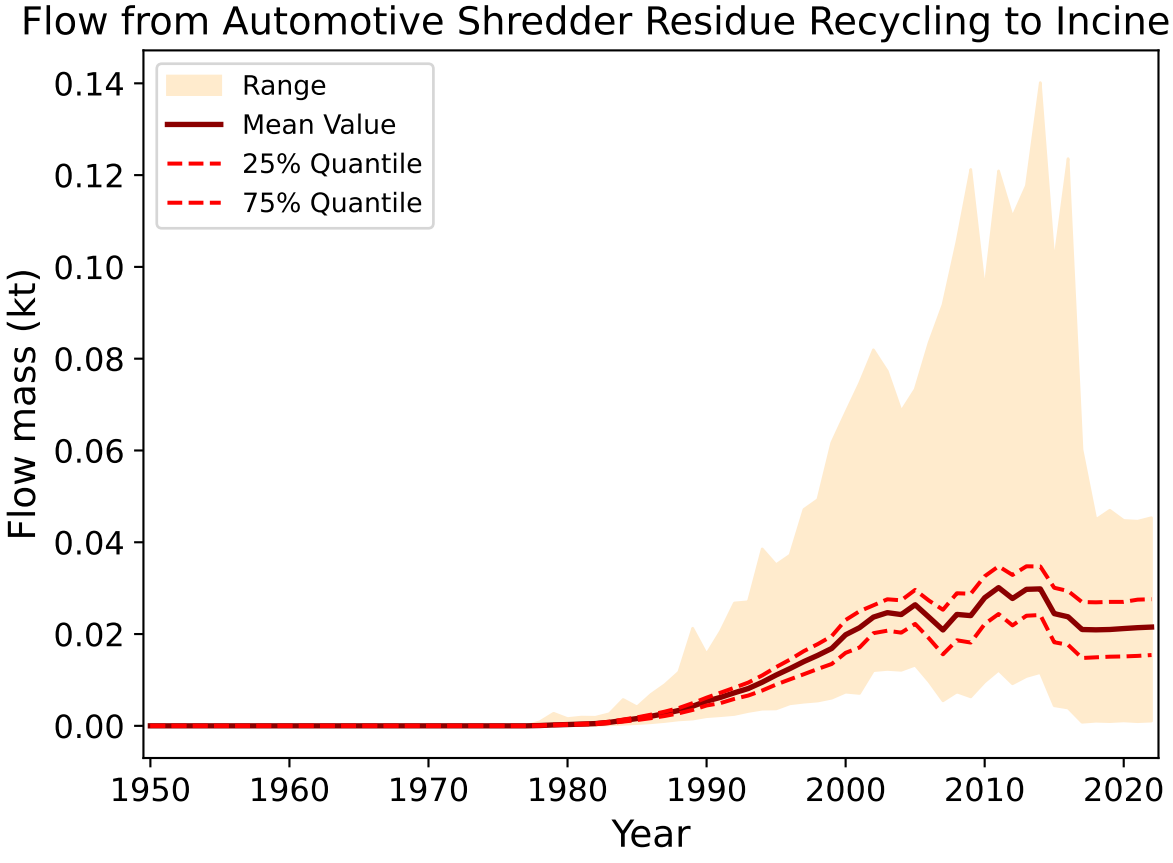

Flow from Automotive Large Parts Recycling to Landfill
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0000
0.0002
0.0004
0.0006
0.0008
1950
1960
1970
1980
1990
2000
2010
2020
Year

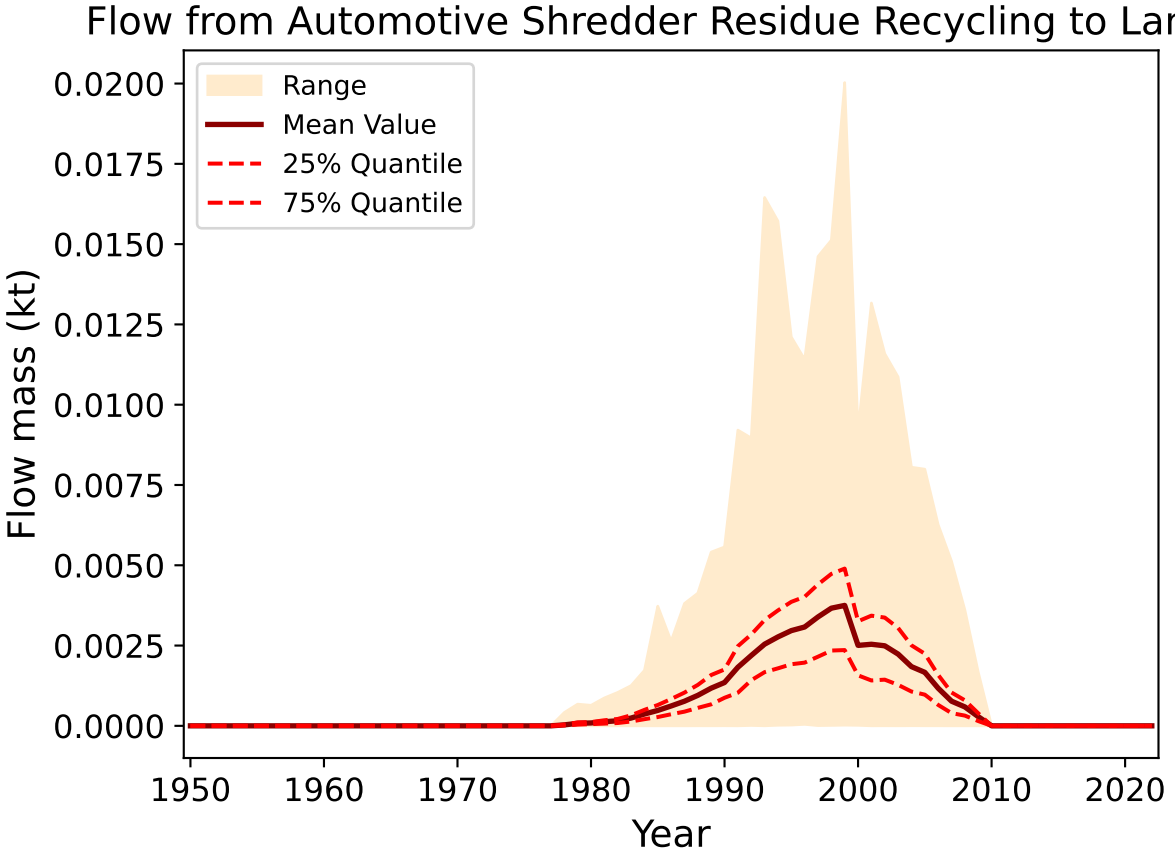

Flow from Automotive Shredder Residue Recycling to Outdoor a
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.00014
0.00012
0.00010
0.00008
0.00006
0.00004
0.00002
0.00000
1950
1960
1970
1980
1990
2000
2010
2020
Year

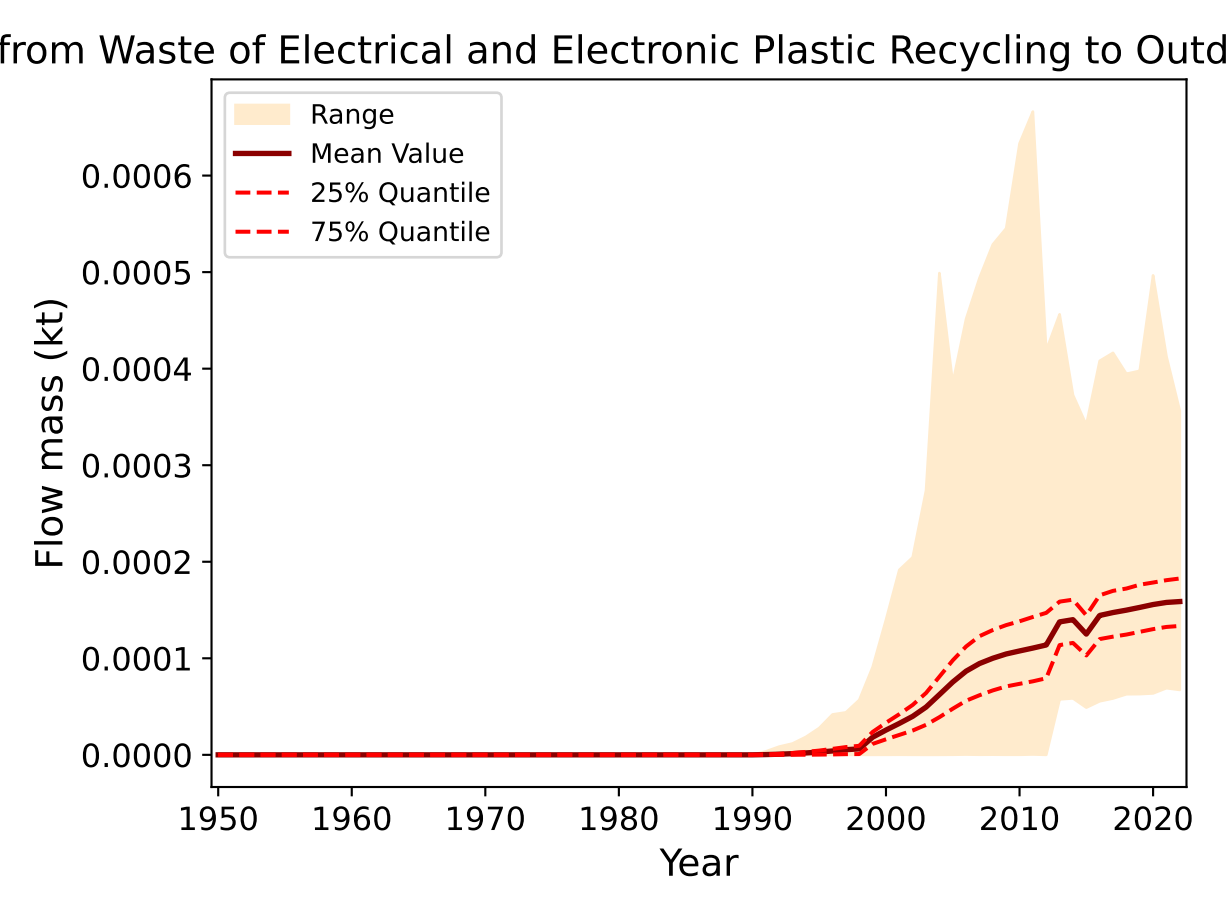

low from Automotive Shredder Residue Recycling to Residential
Range
Mean Value
25% Quantile
75% Quantile
0.00014
0.00012
0.00010
0.00008
0.00006
0.00004
0.00002
0.00000
Flow mass (kt)
1950
1960
1970
1980
1990
2000
2010
2020
Year

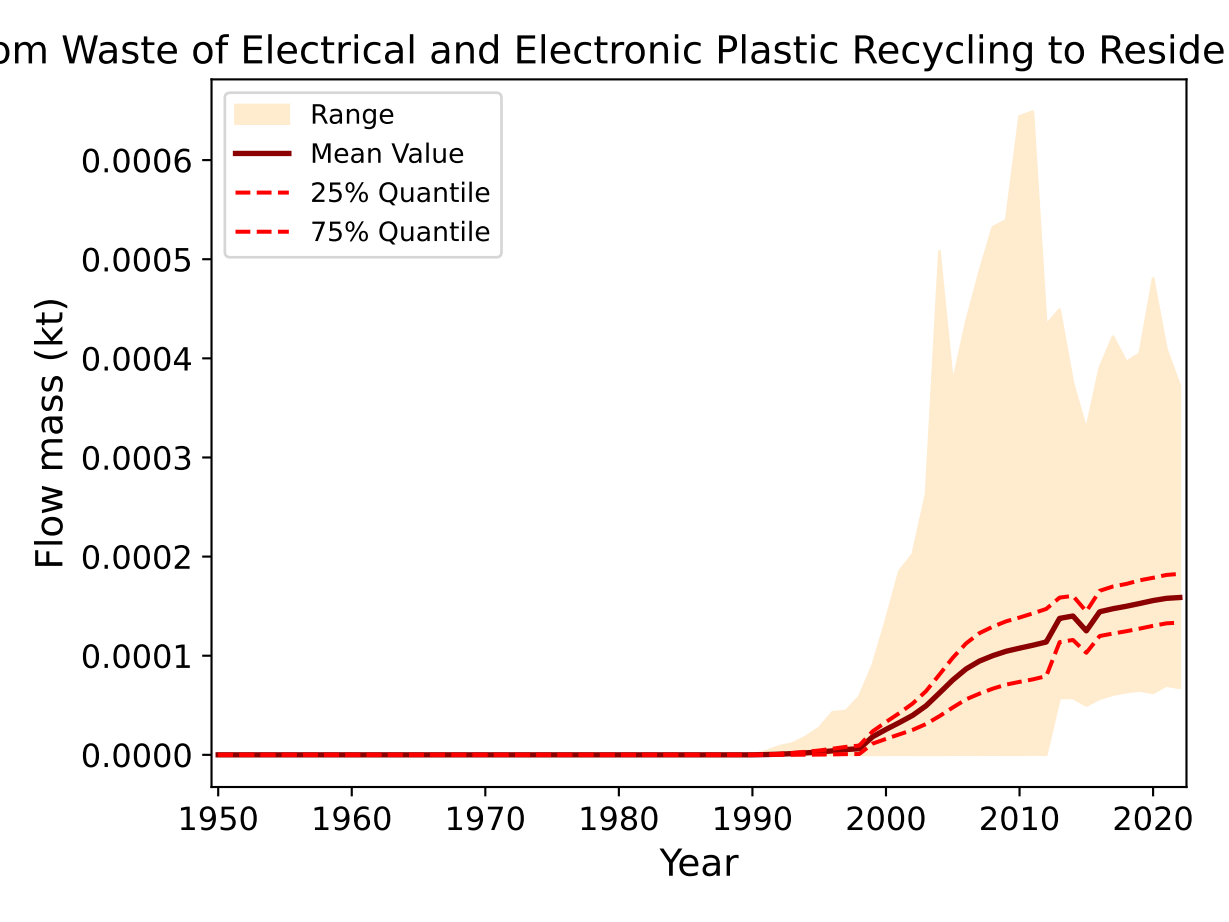

Flow from Automotive Shredder Residue Recycling to Waste Wat
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.00014
0.00012
0.00010
0.00008
0.00006
0.00004
0.00002
0.00000
1950
1960
1970
1980
1990
2000
2010
2020
Year

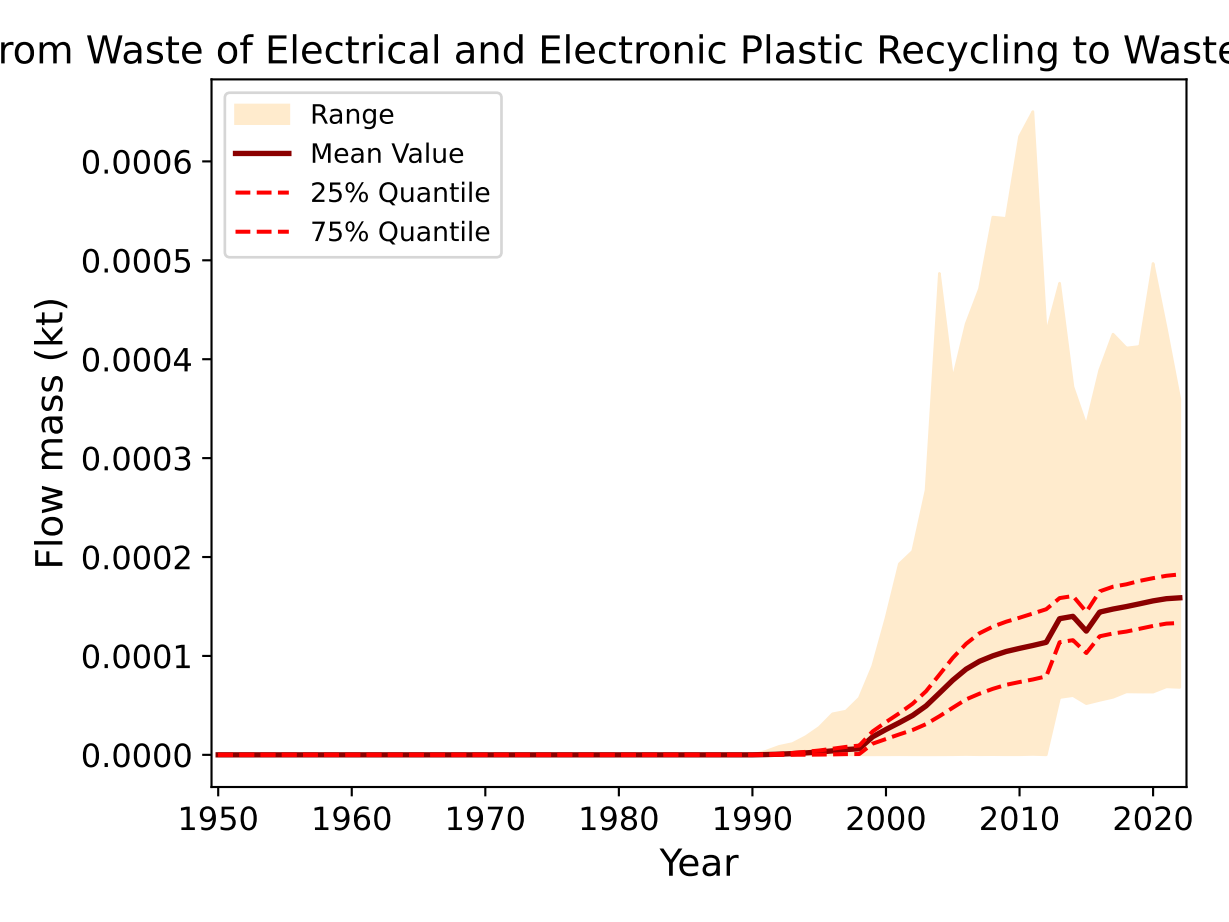

Flow from Automotive Shredder Residue Recycling to Material
Range
Mean Value
25% Quantile
75% Quantile
0.04
0.02
0.00
−0.02
−0.04
Flow mass (kt)
1950
1960
1970
1980
1990
2000
2010
2020
Year

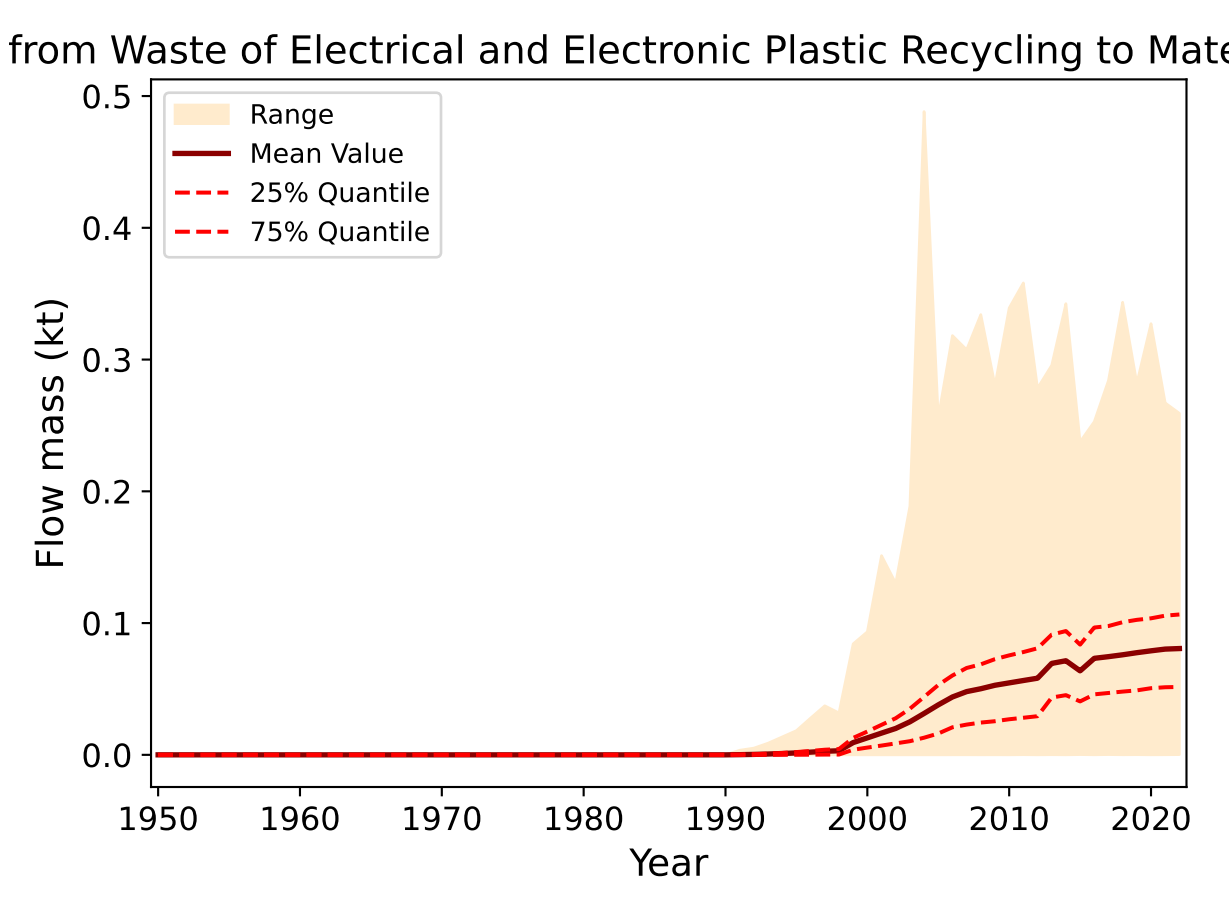

Flow from Automotive Shredder Residue Recycling to Incinera
Range
Mean Value
25% Quantile
75% Quantile
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
Flow mass (kt)
1950
1960
1970
1980
1990
2000
2010
2020
Year

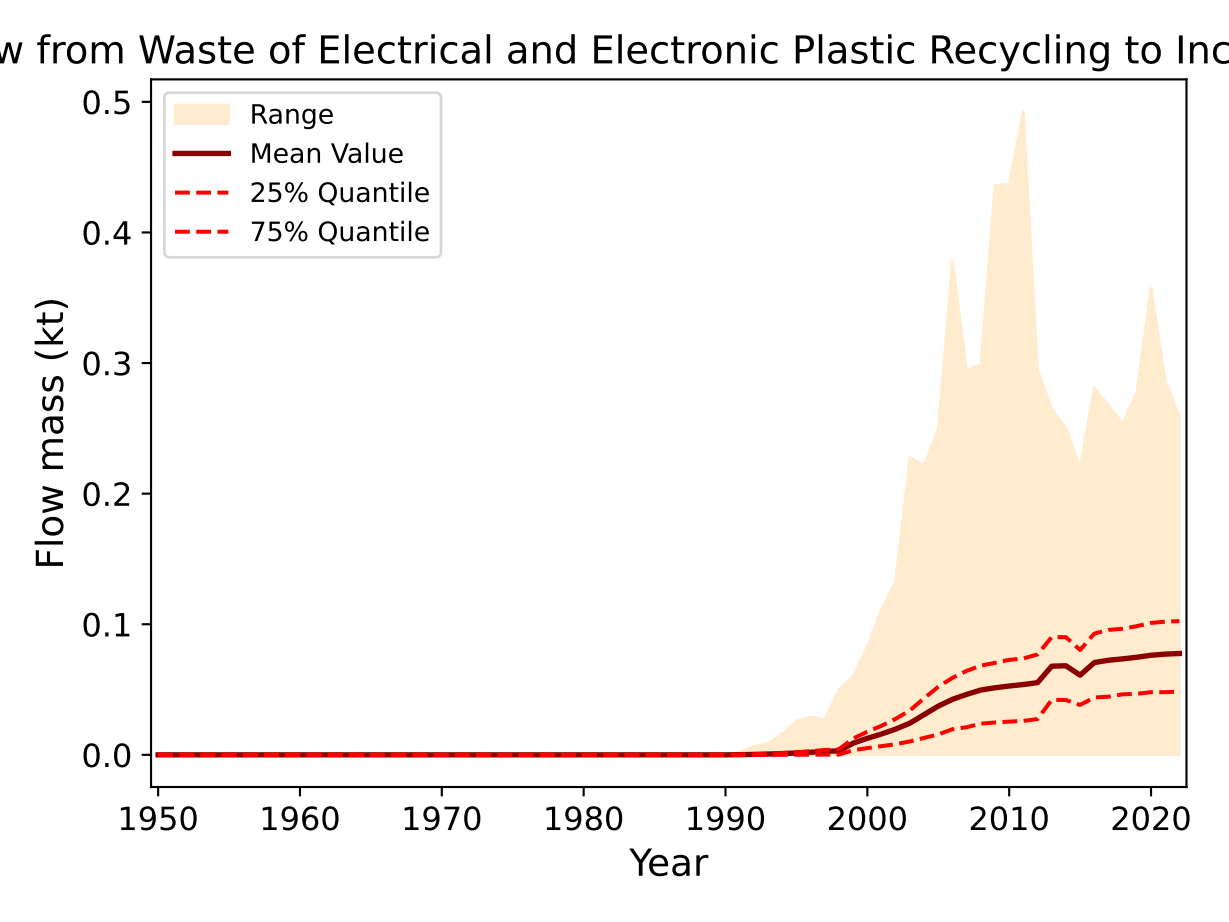

Flow from Automotive Shredder Residue Recycling to Land
Range
Mean Value
25% Quantile
75% Quantile
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0.0000
Flow mass (kt)
1950
1960
1970
1980
1990
2000
2010
2020
Year

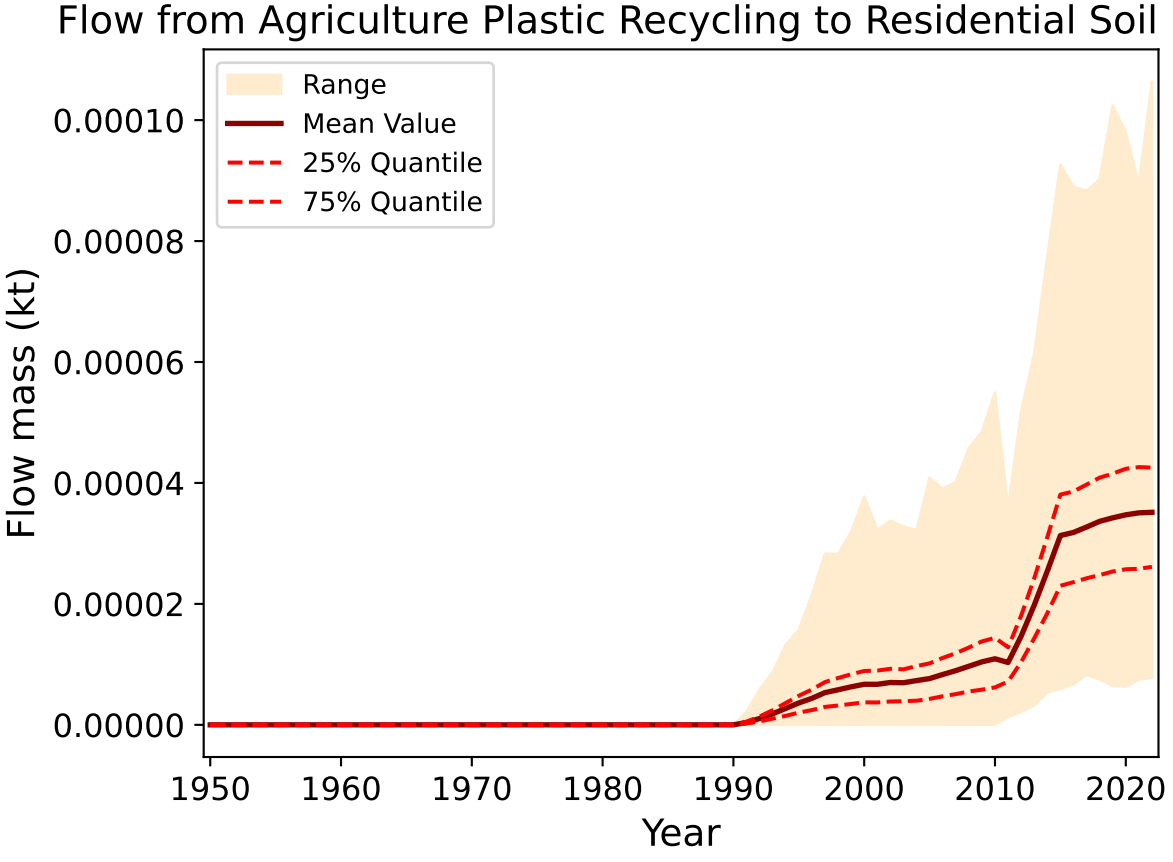

from Waste of Electrical and Electronic Plastic Recycling to Outd
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
1950
1960
1970
1980
1990
2000
2010
2020
Year

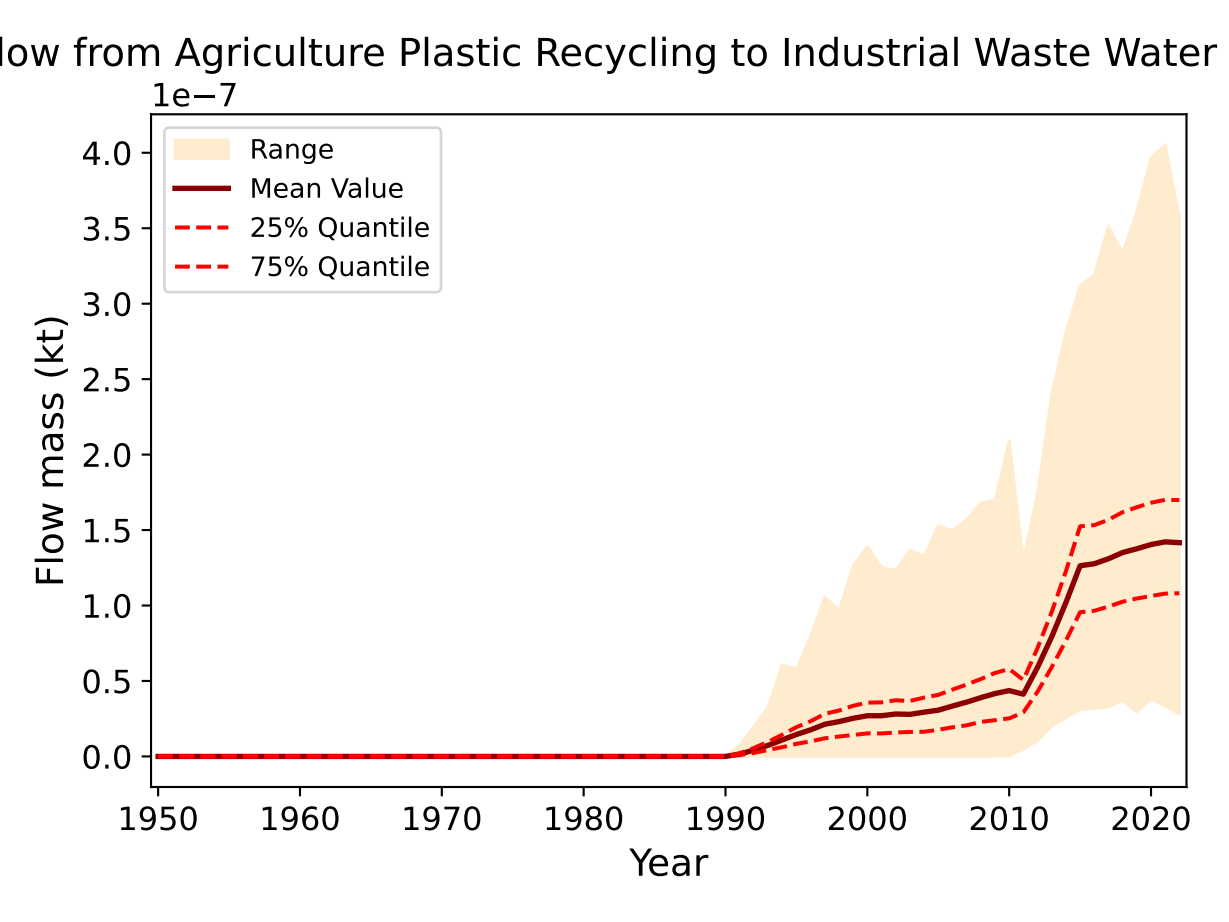

om Waste of Electrical and Electronic Plastic Recycling to Reside
Range
Mean Value
25% Quantile
75% Quantile
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
Flow mass (kt)
1950
1960
1970
1980
1990
2000
2010
2020
Year

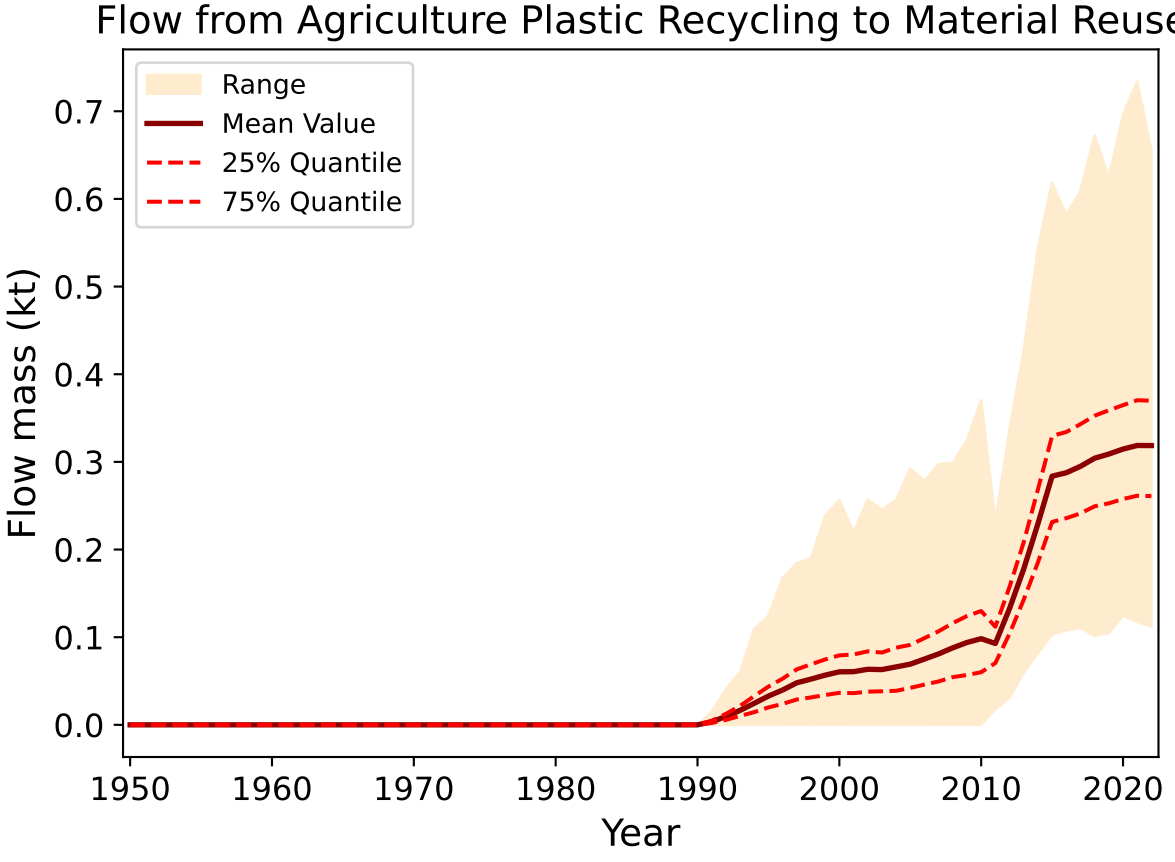

rom Waste of Electrical and Electronic Plastic Recycling to Waste
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
1950
1960
1970
1980
1990
2000
2010
2020
Year

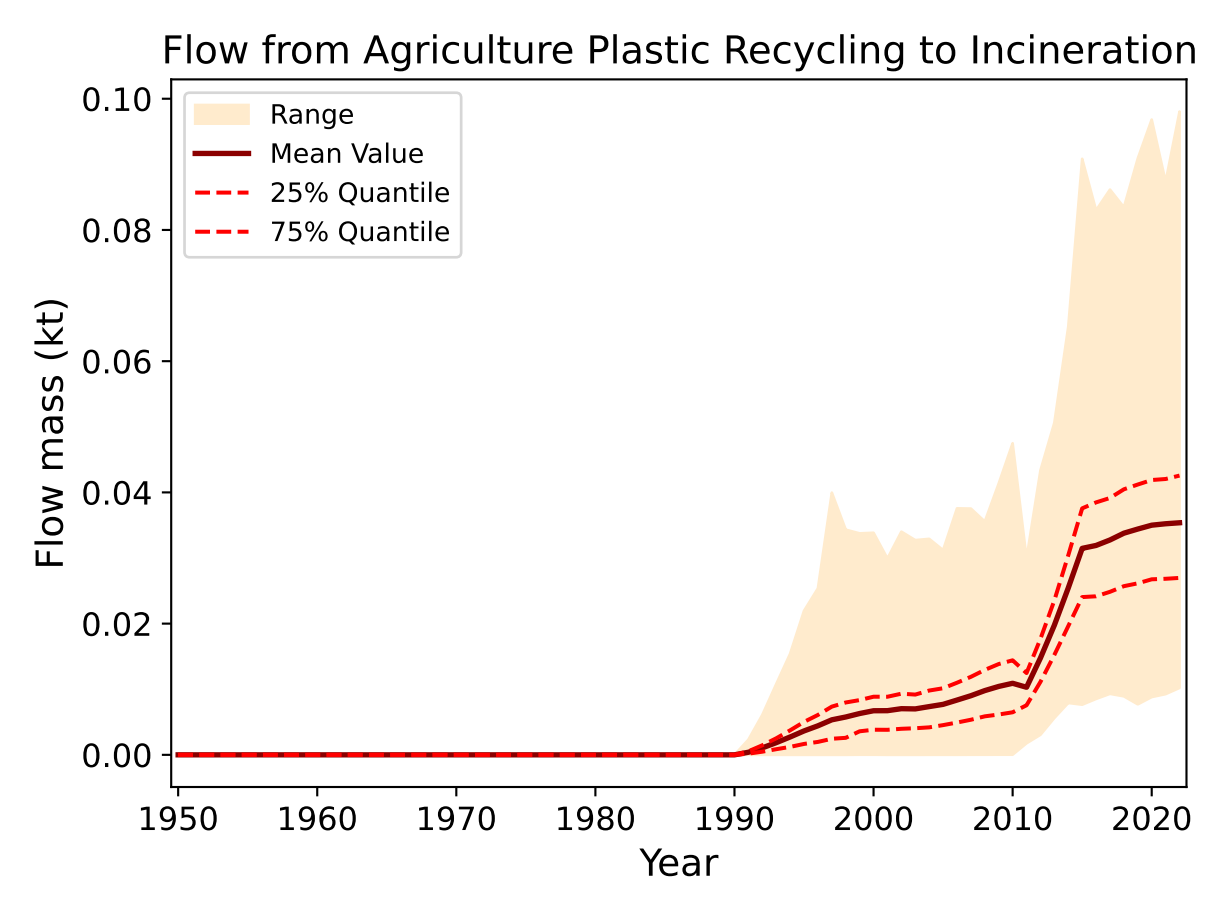

from Waste of Electrical and Electronic Plastic Recycling to Mate
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.5
0.4
0.3
0.2
0.1
0.0
1950
1960
1970
1980
1990
2000
2010
2020
Year

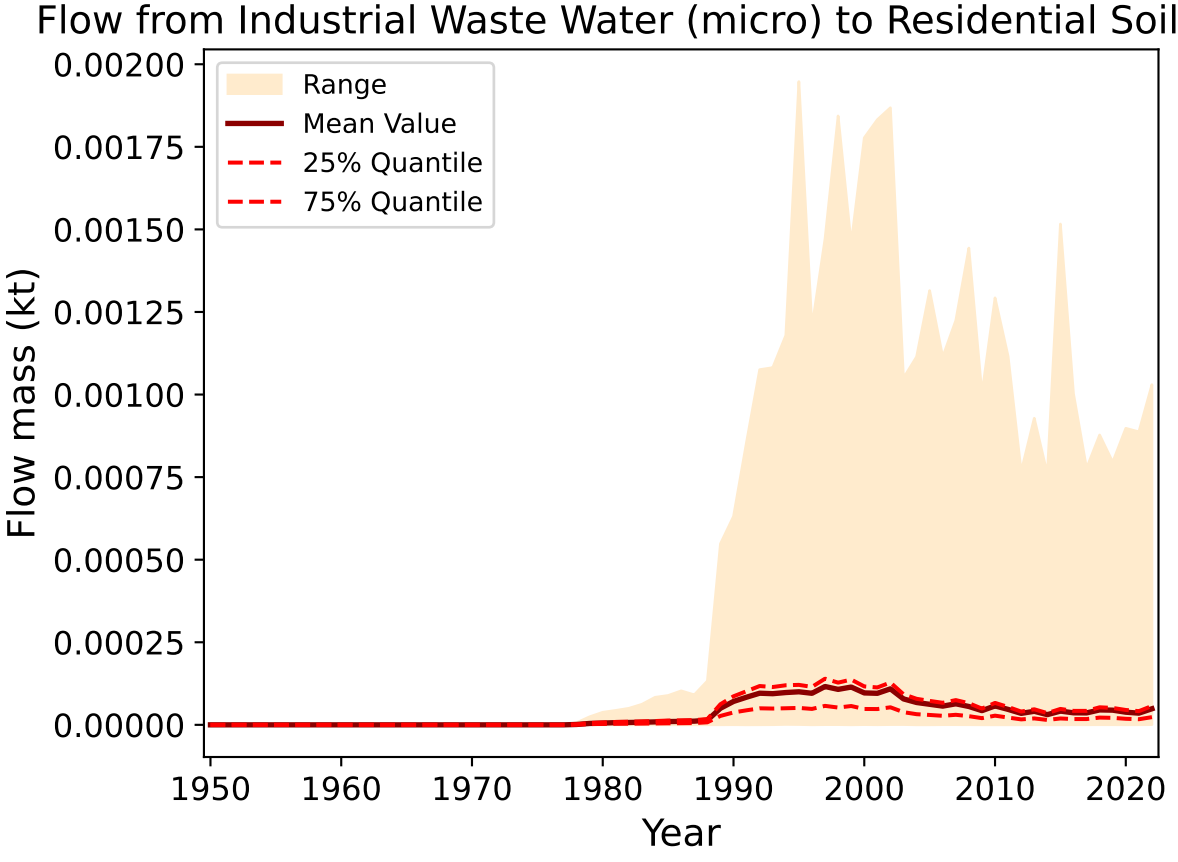

w from Waste of Electrical and Electronic Plastic Recycling to Inc
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.5
0.4
0.3
0.2
0.1
0.0
1950
1960
1970
1980
1990
2000
2010
2020
Year

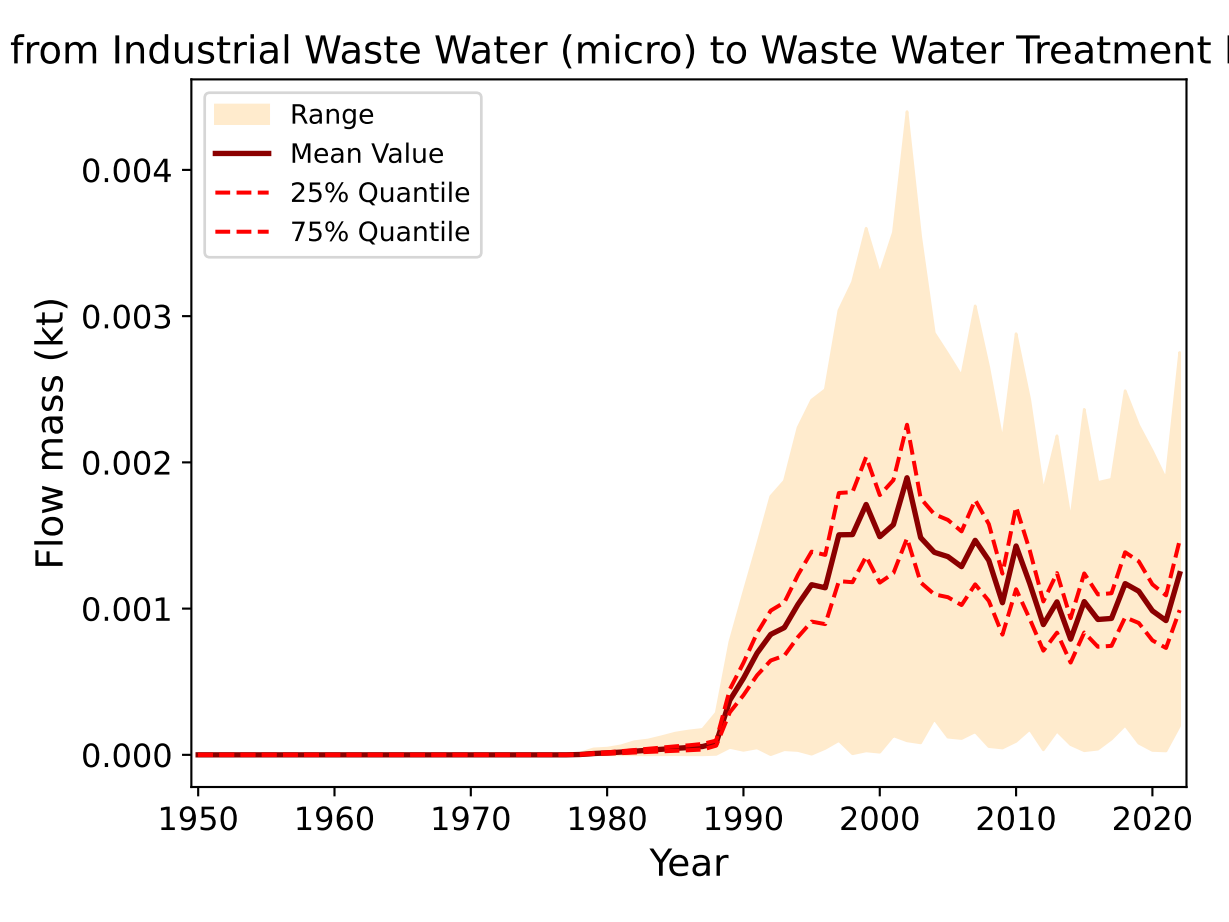

Flow from Agriculture Plastic Recycling to Residential Soil (r
Range
Mean Value
25% Quantile
75% Quantile
0.00010
0.00008
0.00006
0.00004
0.00002
0.00000
Flow mass (kt)
1950
1960
1970
1980
1990
2000
2010
2020
Year

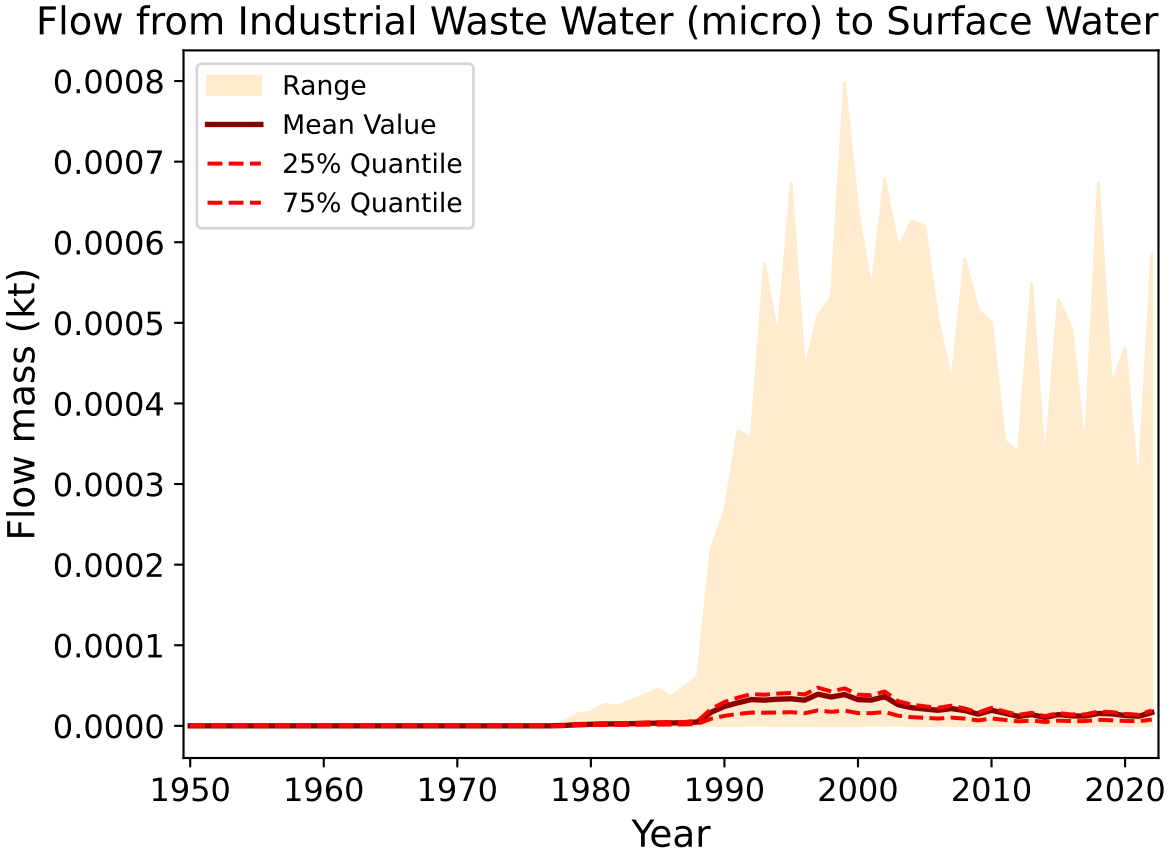

low from Agriculture Plastic Recycling to Industrial Waste Water
1e−7
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
4.0
3.5
3.0
2.5
2.0
1.5
1.0
0.5
0.0
1950
1960
1970
1980
1990
2000
2010
2020
Year

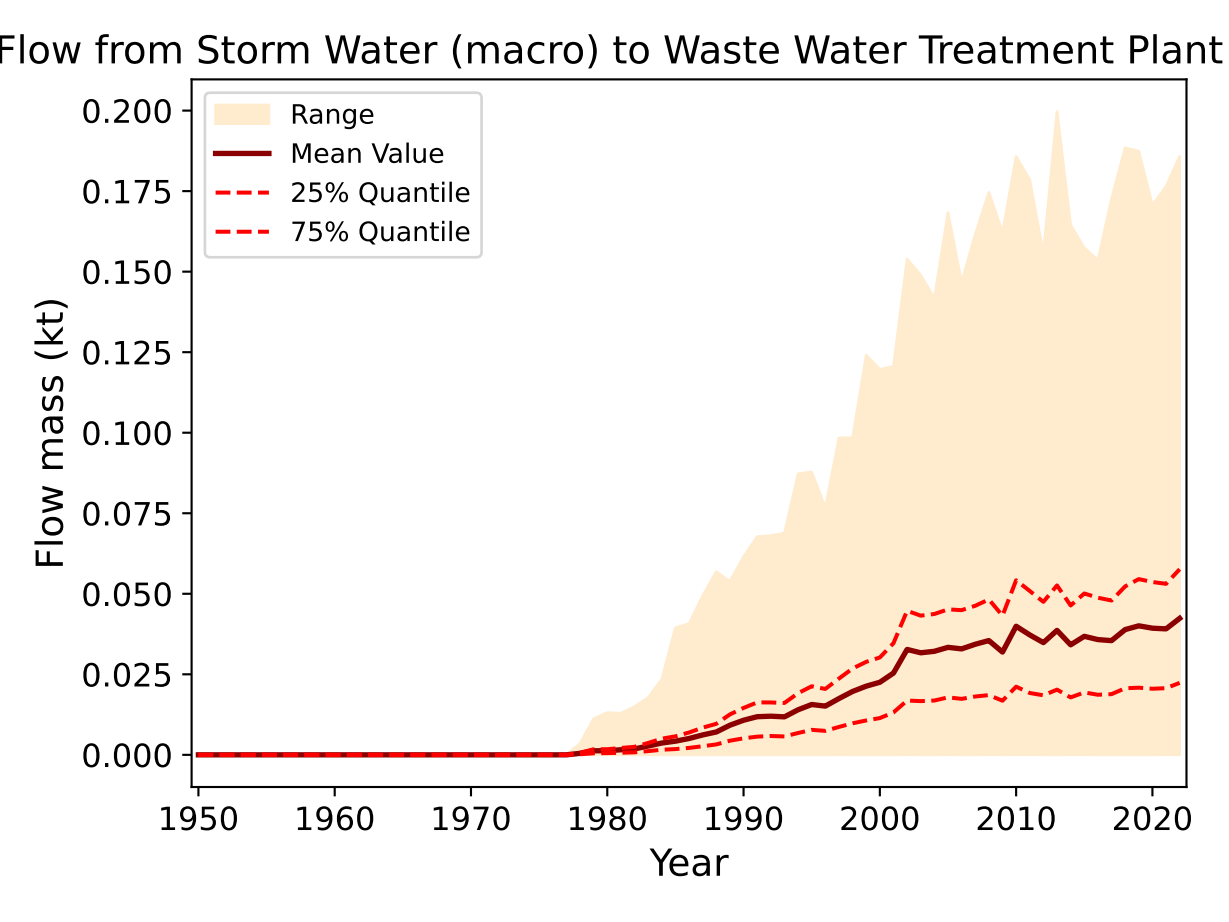

Flow from Agriculture Plastic Recycling to Material Reuse
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0
0.1
0.2
0.3
0.4
0.5
0.6
0.7
1950
1960
1970
1980
1990
2000
2010
2020
Year

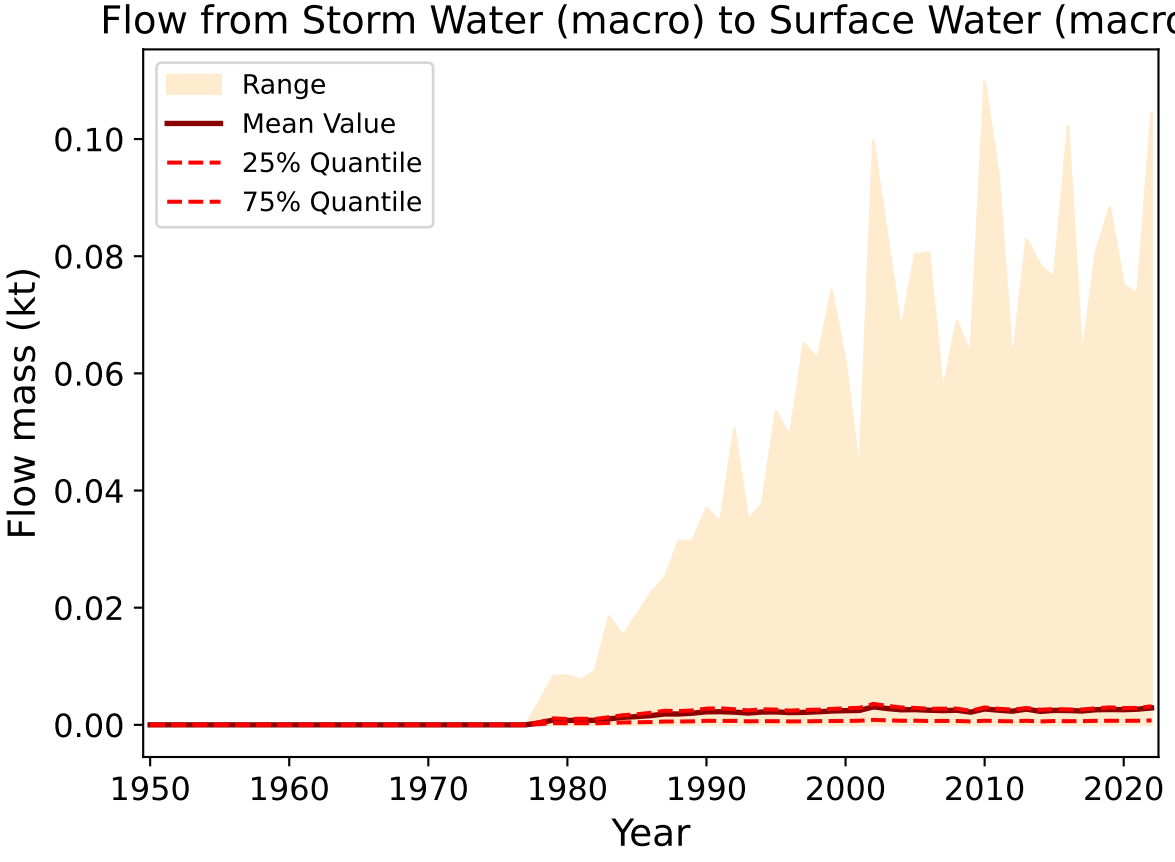

Flow from Agriculture Plastic Recycling to Incineration
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.10
0.08
0.06
0.04
0.02
0.00
1950
1960
1970
1980
1990
2000
2010
2020
Year

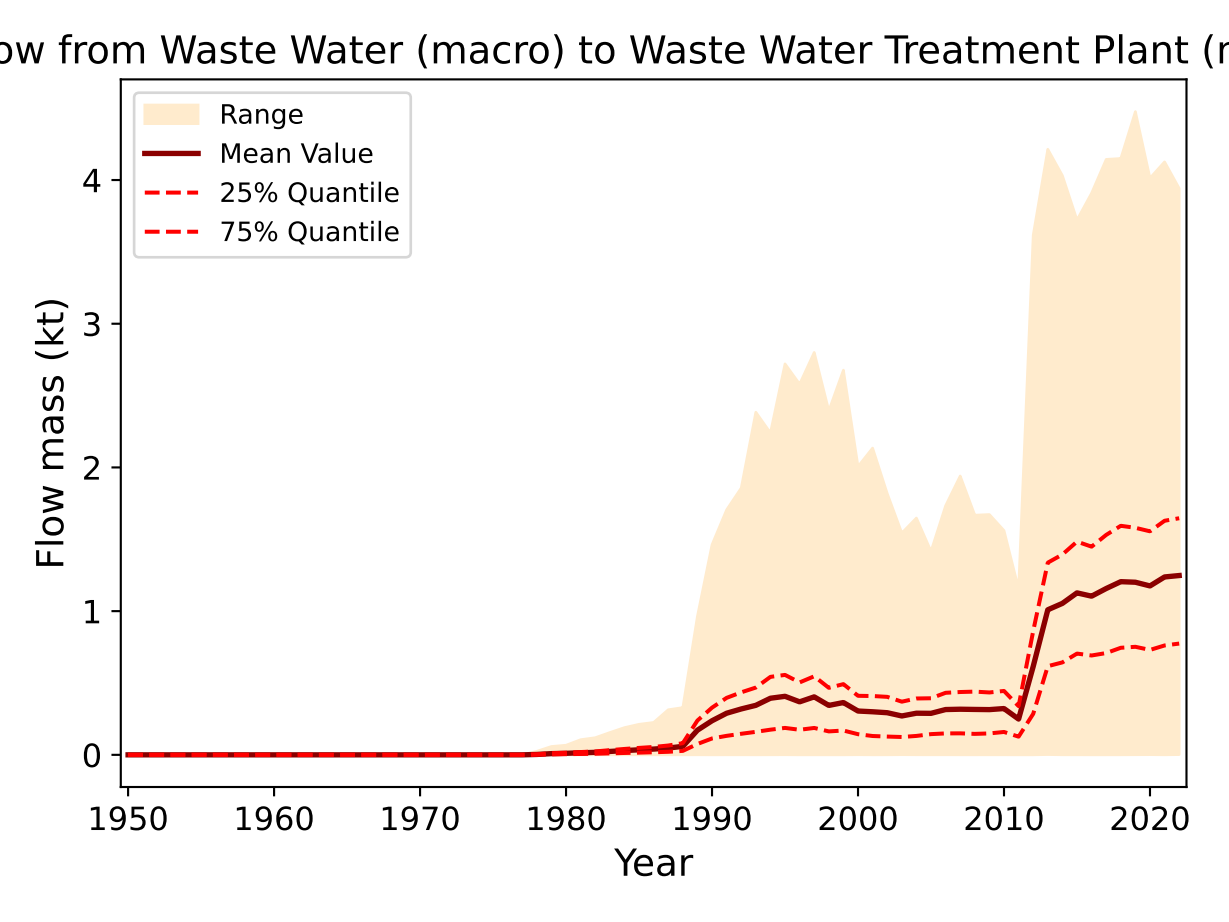

Flow from Industrial Waste Water (micro) to Residential Soil (
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.00200
0.00175
0.00150
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
1950
1960
1970
1980
1990
2000
2010
2020
Year

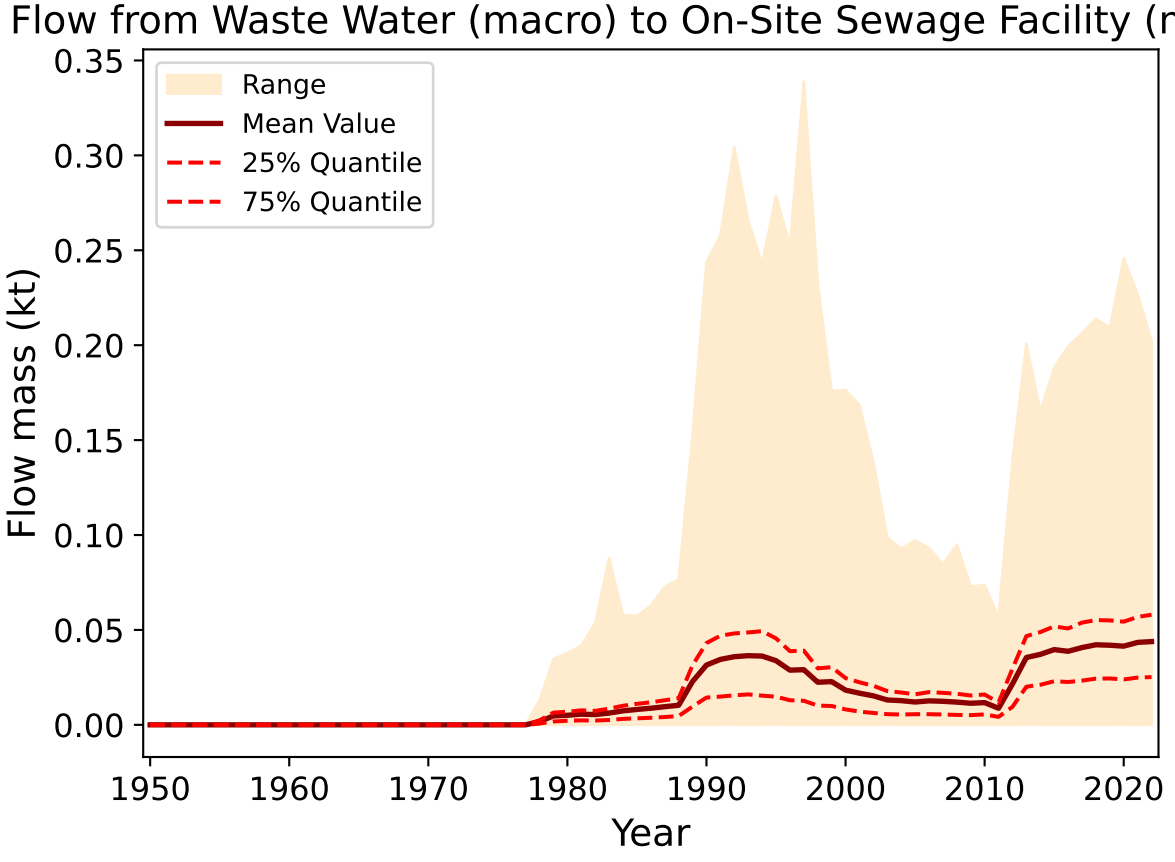

from Industrial Waste Water (micro) to Waste Water Treatment
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.004
0.003
0.002
0.001
0.000
1950
1960
1970
1980
1990
2000
2010
2020
Year

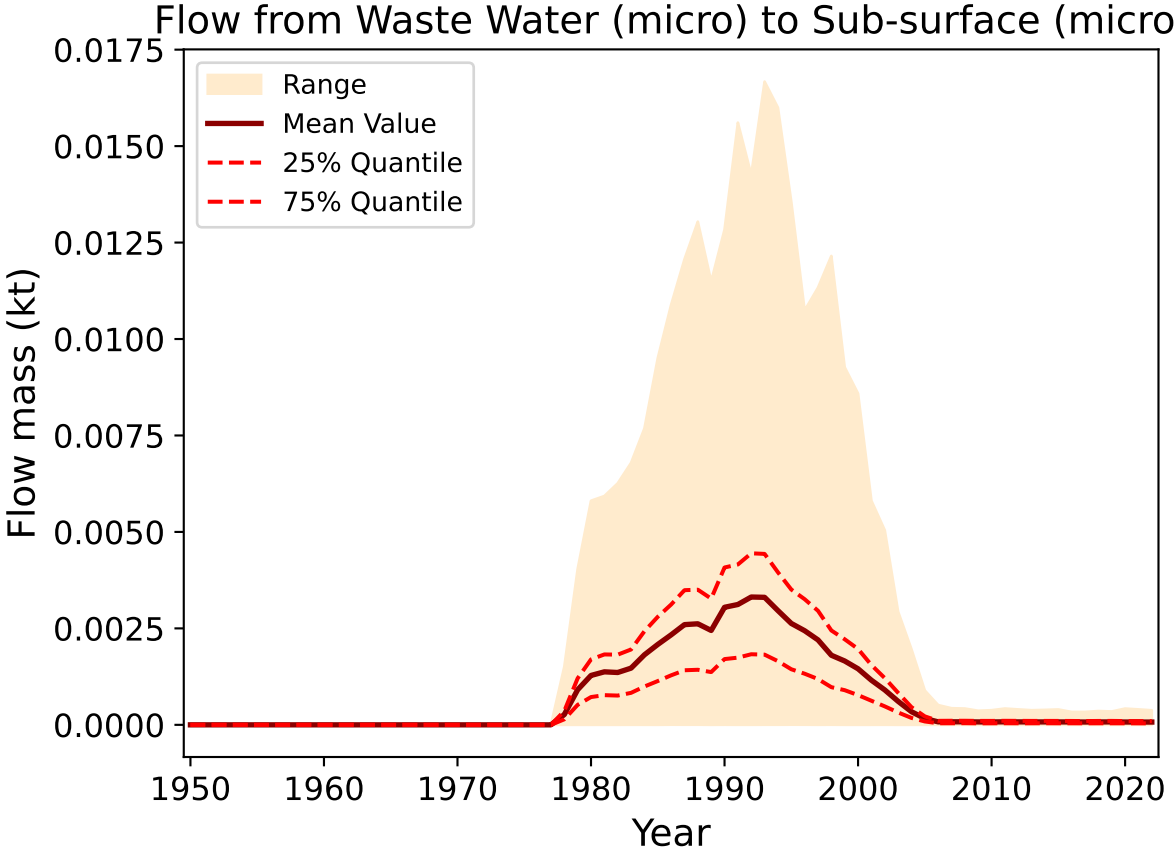

Flow from Industrial Waste Water (micro) to Surface Water (r
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0008
0.0007
0.0006
0.0005
0.0004
0.0003
0.0002
0.0001
0.0000
1950
1960
1970
1980
1990
2000
2010
2020
Year

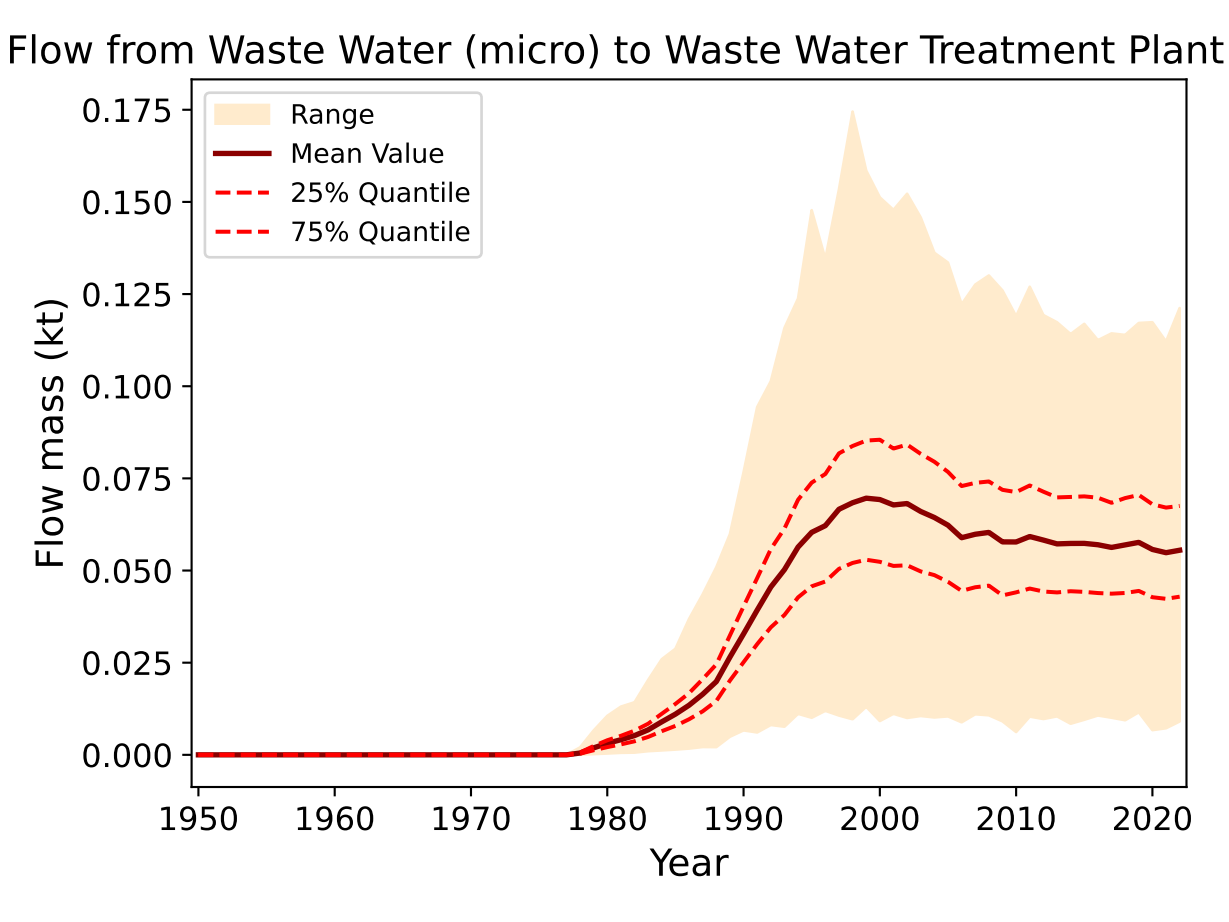

Flow from Storm Water (macro) to Waste Water Treatment Plant
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.200
0.175
0.150
0.125
0.100
0.075
0.050
0.025
0.000
1950
1960
1970
1980
1990
2000
2010
2020
Year

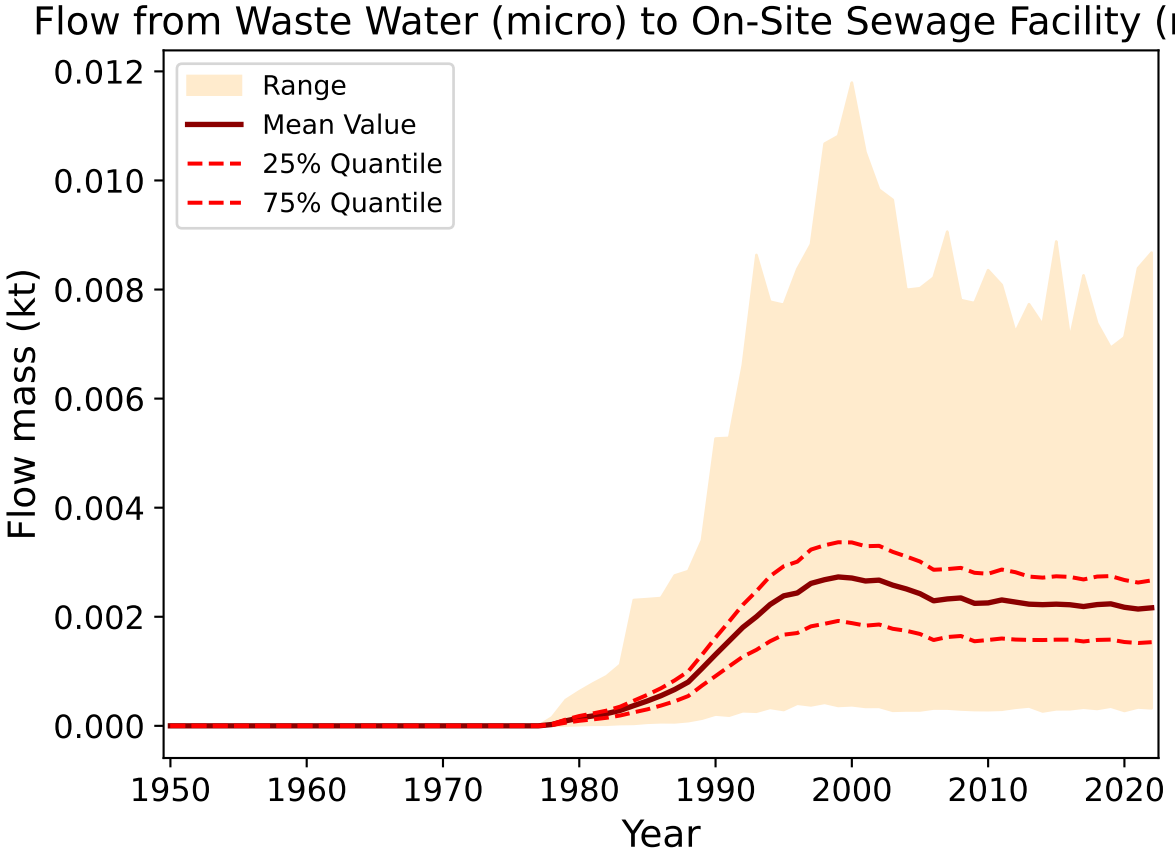

Flow from Storm Water (macro) to Surface Water (macro)
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.00
0.02
0.04
0.06
0.08
0.10
1950
1960
1970
1980
1990
2000
2010
2020
Year

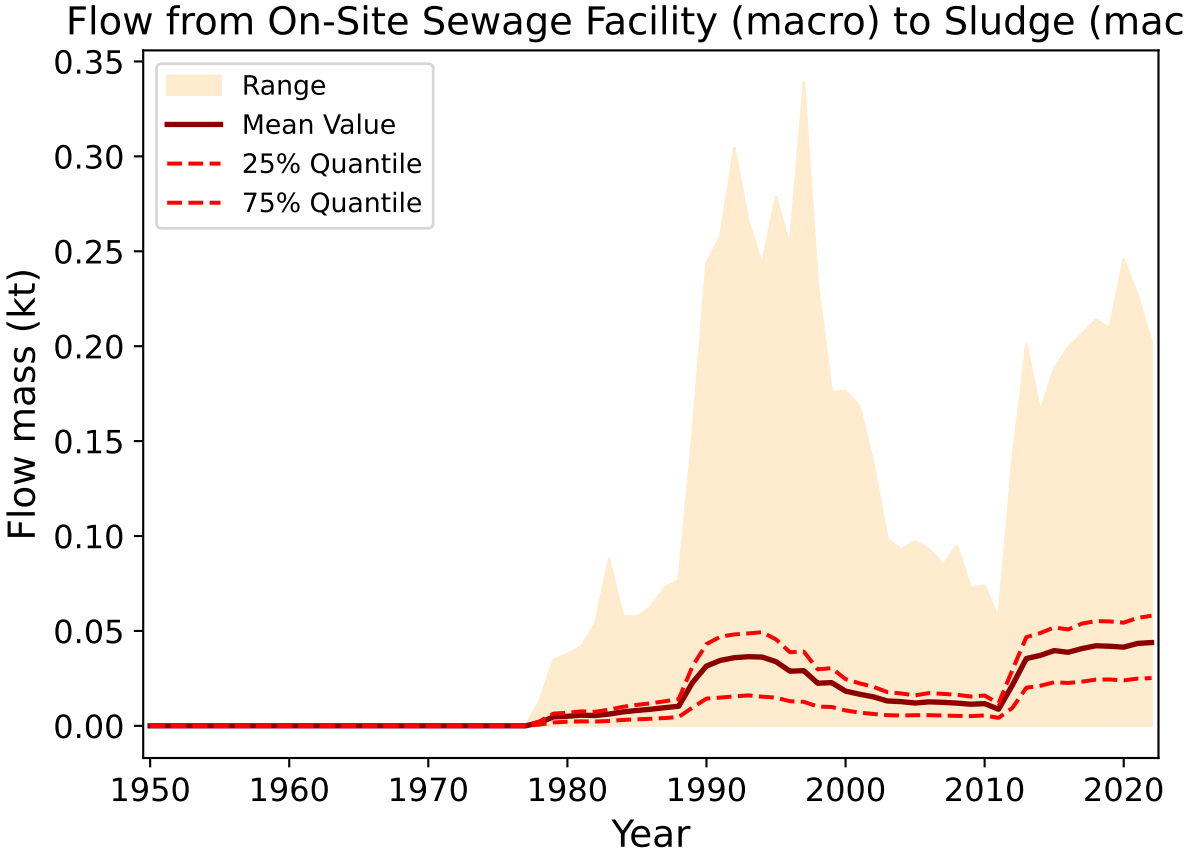

ow from Waste Water (macro) to Waste Water Treatment Plant (r
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
1
2
3
4
1950
1960
1970
1980
1990
2000
2010
2020
Year

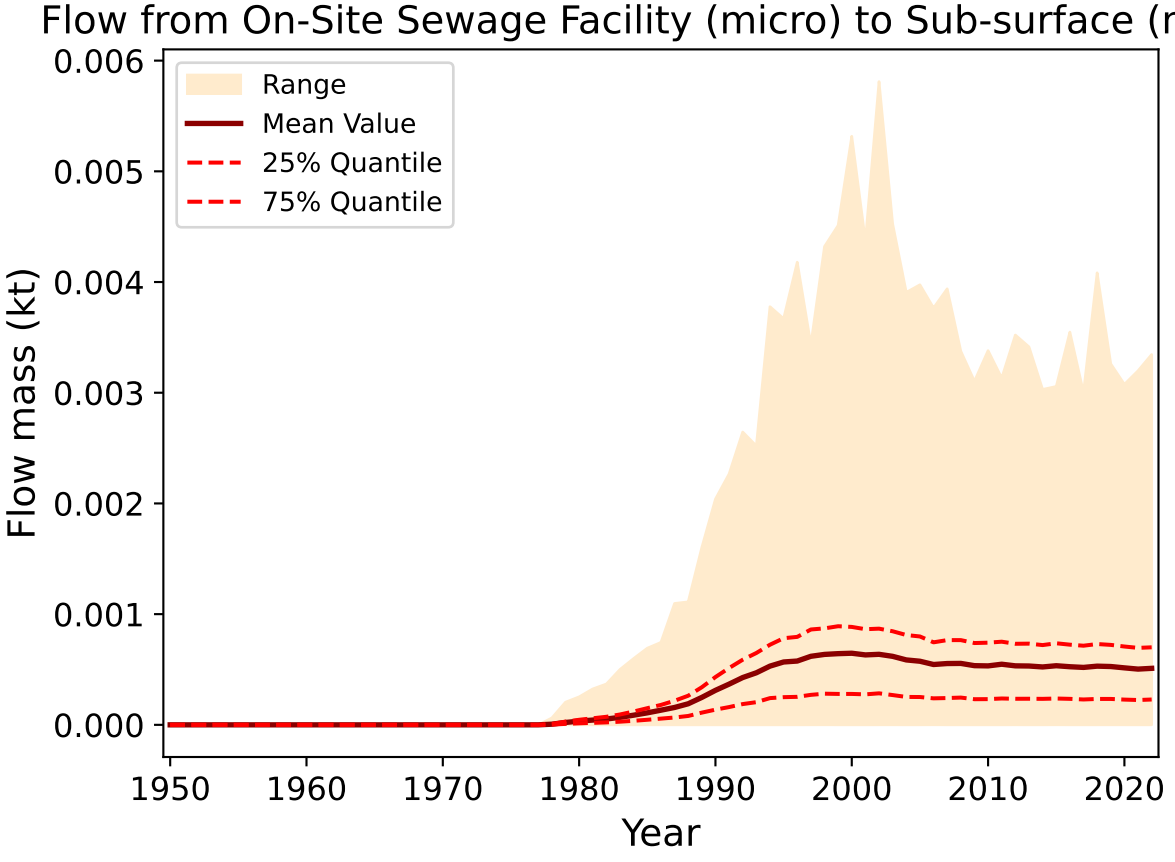

Flow from Waste Water (macro) to On-Site Sewage Facility (ma
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
1950
1960
1970
1980
1990
2000
2010
2020
Year

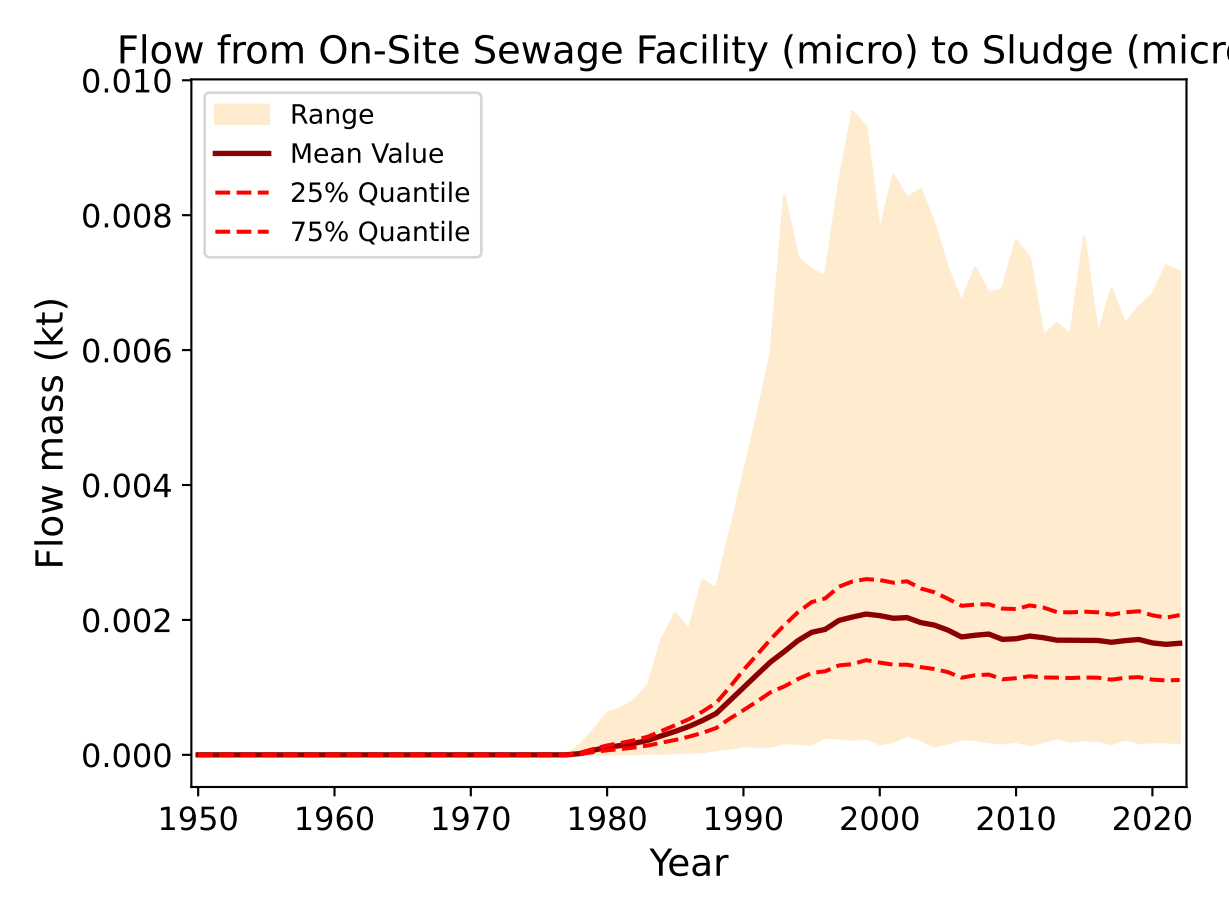

Flow from Waste Water (micro) to Sub-surface (micro)
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0.0000
1950
1960
1970
1980
1990
2000
2010
2020
Year

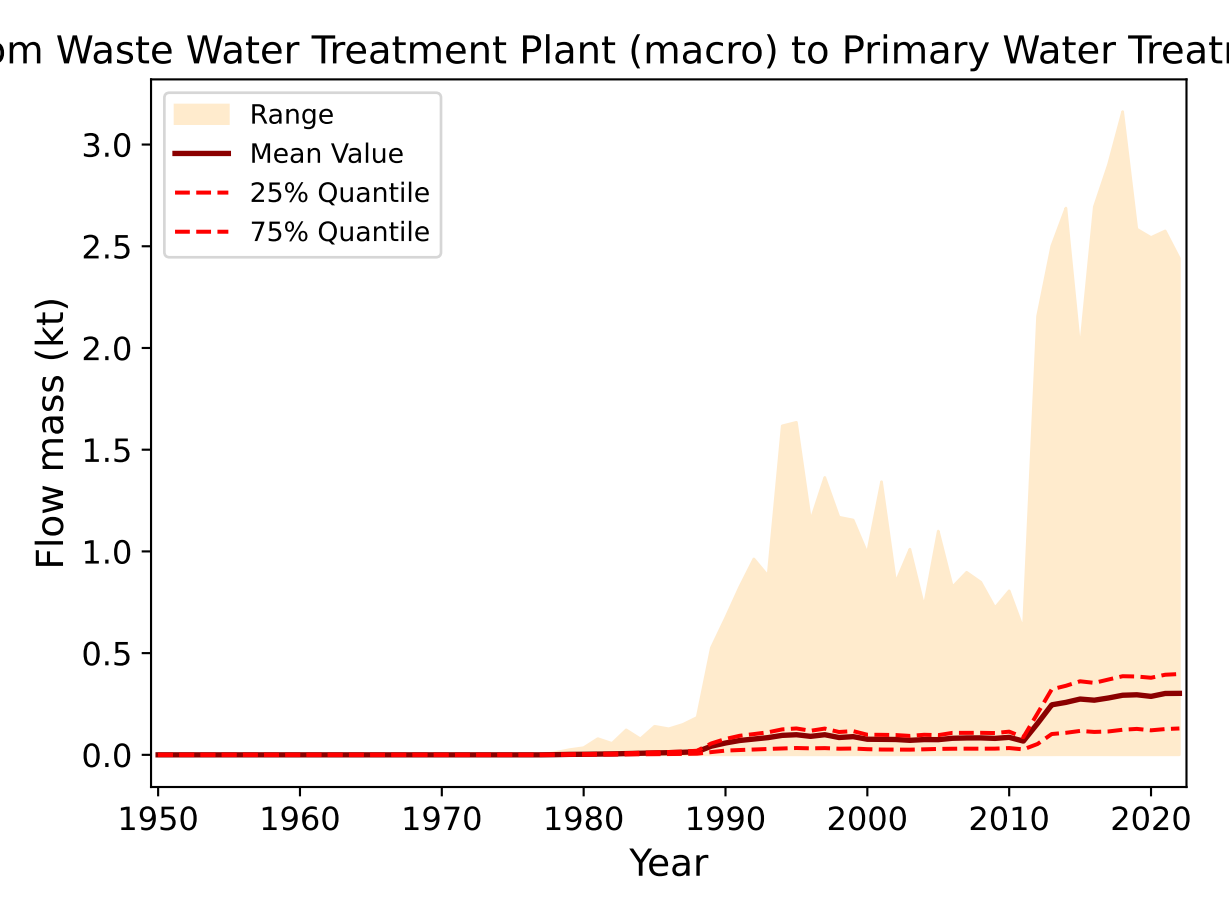

Flow from Waste Water (micro) to Waste Water Treatment Plant
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.175
0.150
0.125
0.100
0.075
0.050
0.025
0.000
1950
1960
1970
1980
1990
2000
2010
2020
Year

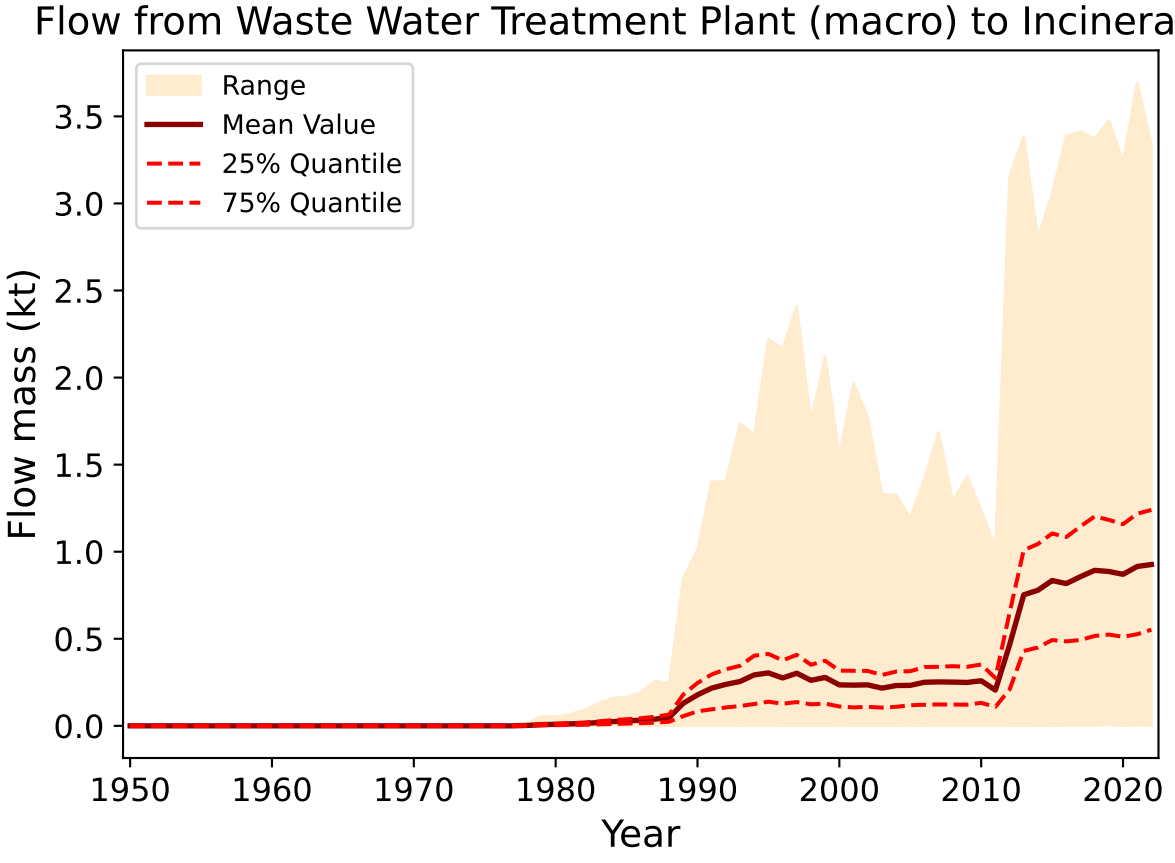

Flow from Waste Water (micro) to On-Site Sewage Facility (m
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.012
0.010
0.008
0.006
0.004
0.002
0.000
1950
1960
1970
1980
1990
2000
2010
2020
Year

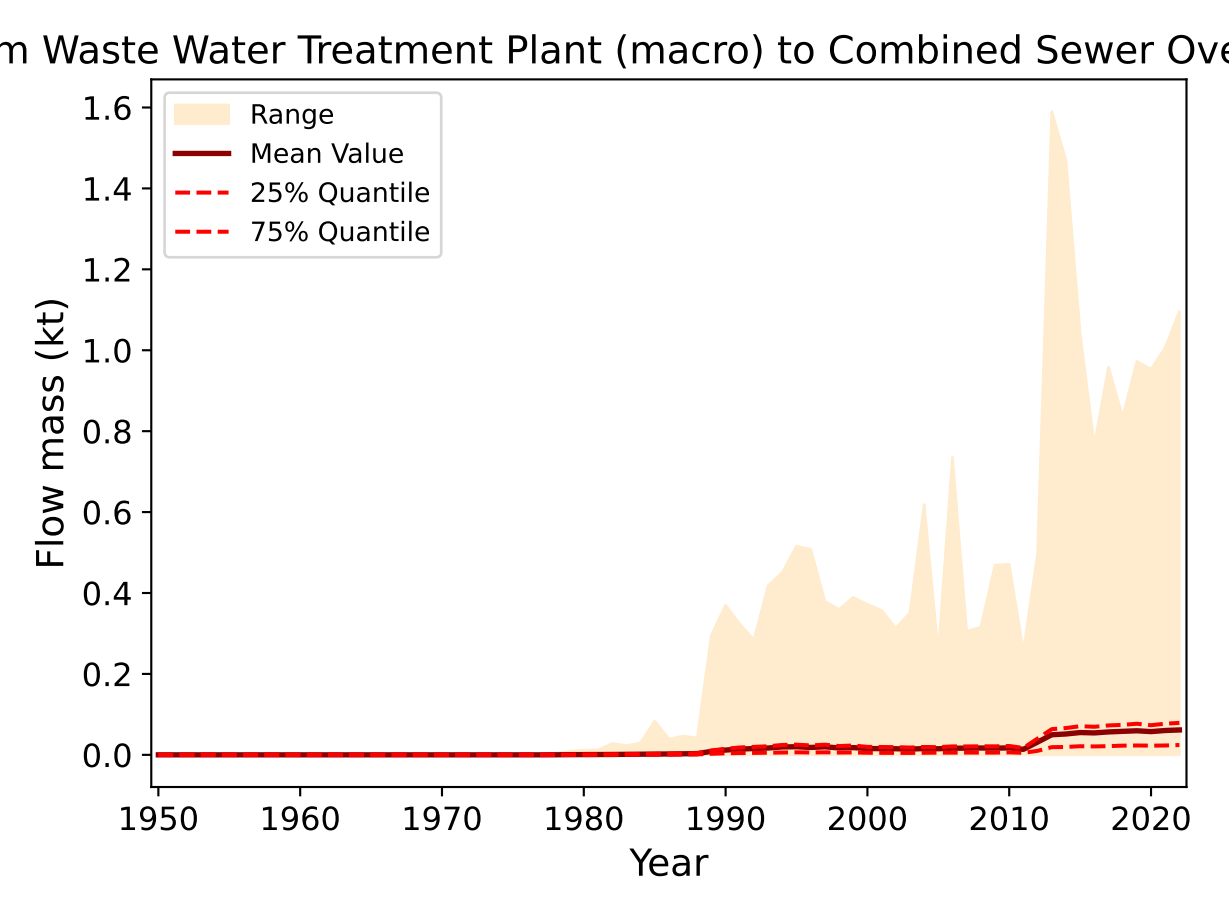

Flow from On-Site Sewage Facility (macro) to Sludge (macr
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.35
0.30
0.25
0.20
0.15
0.10
0.05
0.00
1950
1960
1970
1980
1990
2000
2010
2020
Year

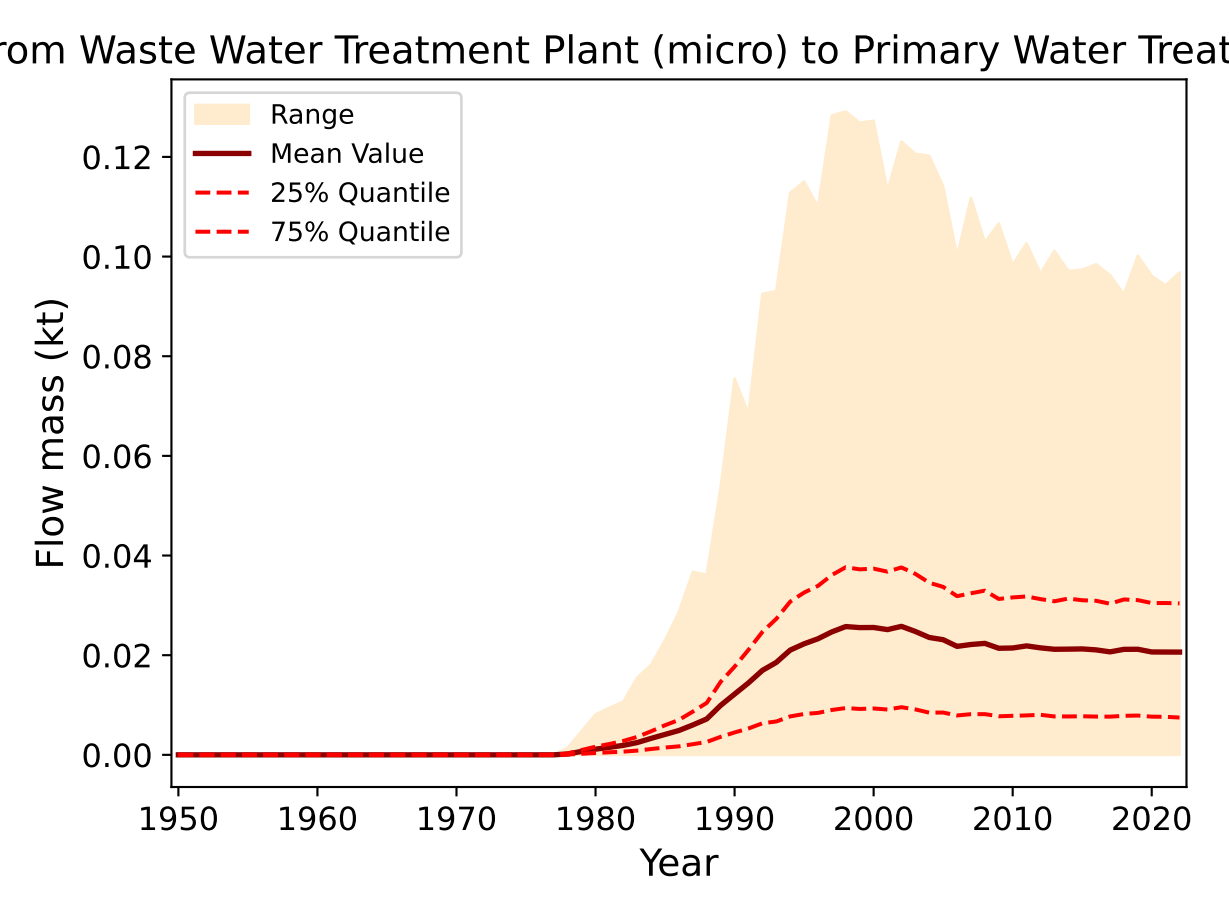

Flow from On-Site Sewage Facility (micro) to Sub-surface (m
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.006
0.005
0.004
0.003
0.002
0.001
0.000
1950
1960
1970
1980
1990
2000
2010
2020
Year

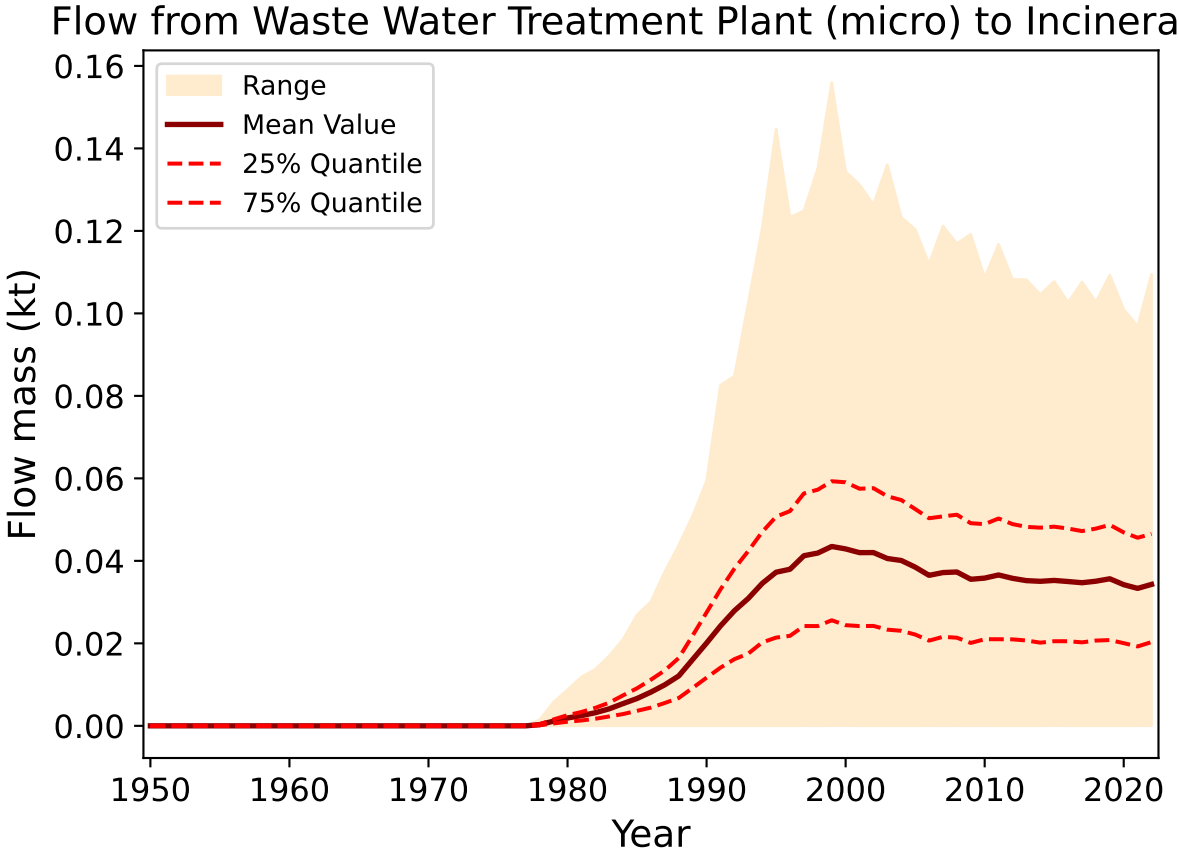

Flow from On-Site Sewage Facility (micro) to Sludge (micr
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.010
0.008
0.006
0.004
0.002
0.000
1950
1960
1970
1980
1990
2000
2010
2020
Year

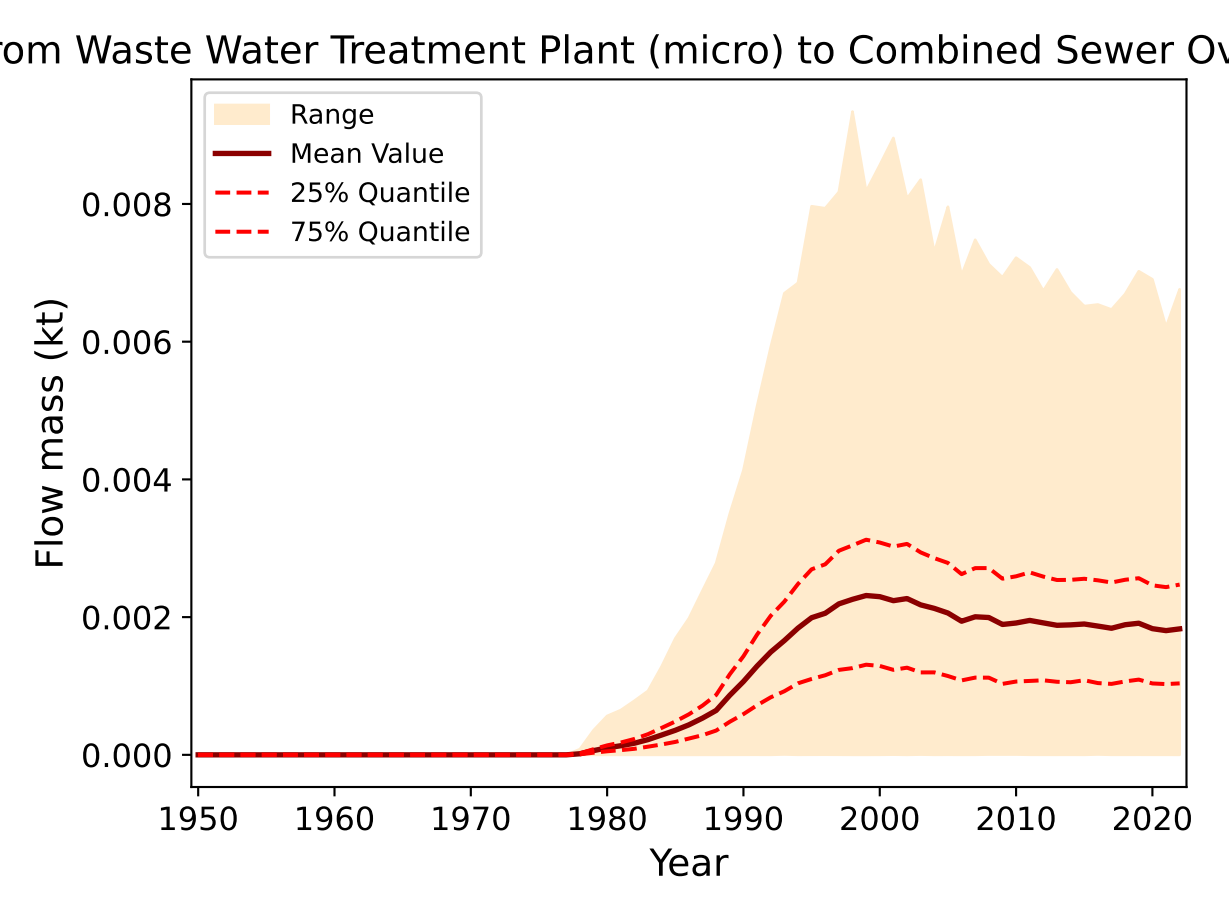

om Waste Water Treatment Plant (macro) to Primary Water Treatm
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
1950
1960
1970
1980
1990
2000
2010
2020
Year

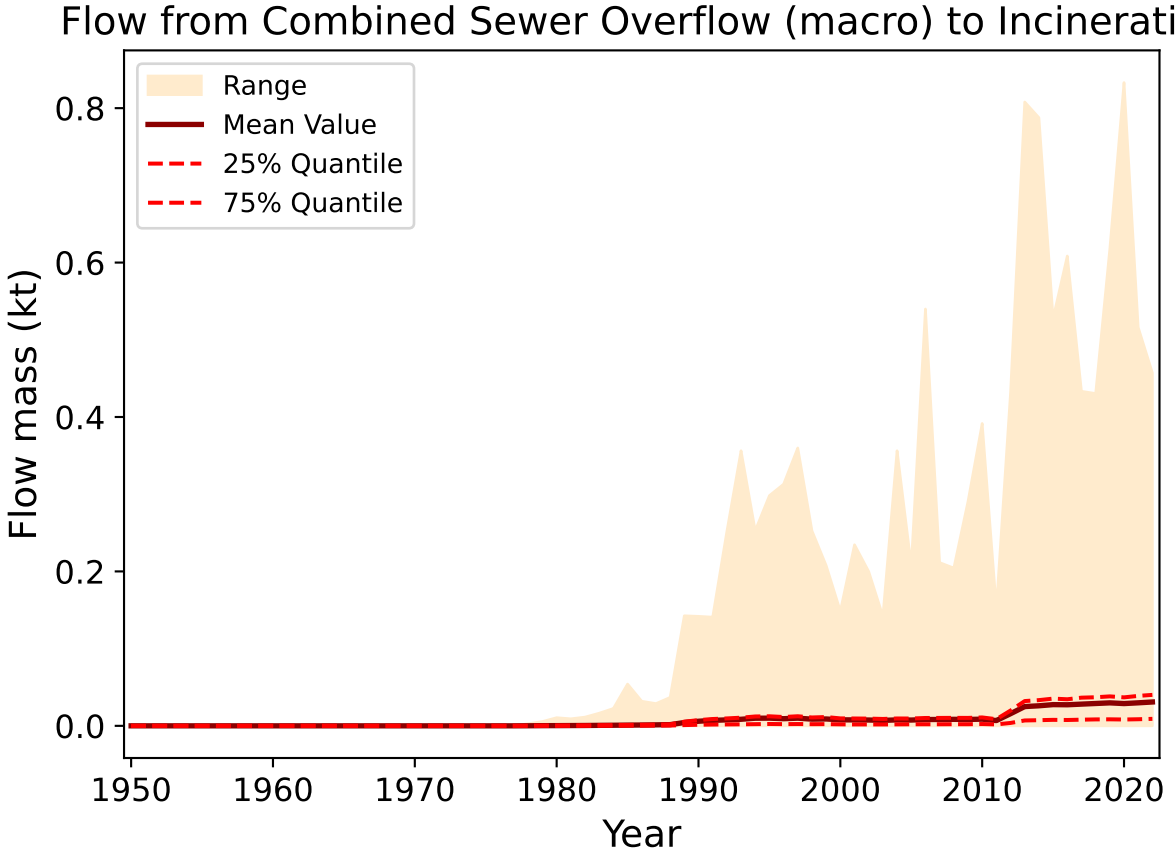

Flow from Waste Water Treatment Plant (macro) to Incinerati
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0
0.5
1.0
1.5
2.0
2.5
3.0
3.5
1950
1960
1970
1980
1990
2000
2010
2020
Year

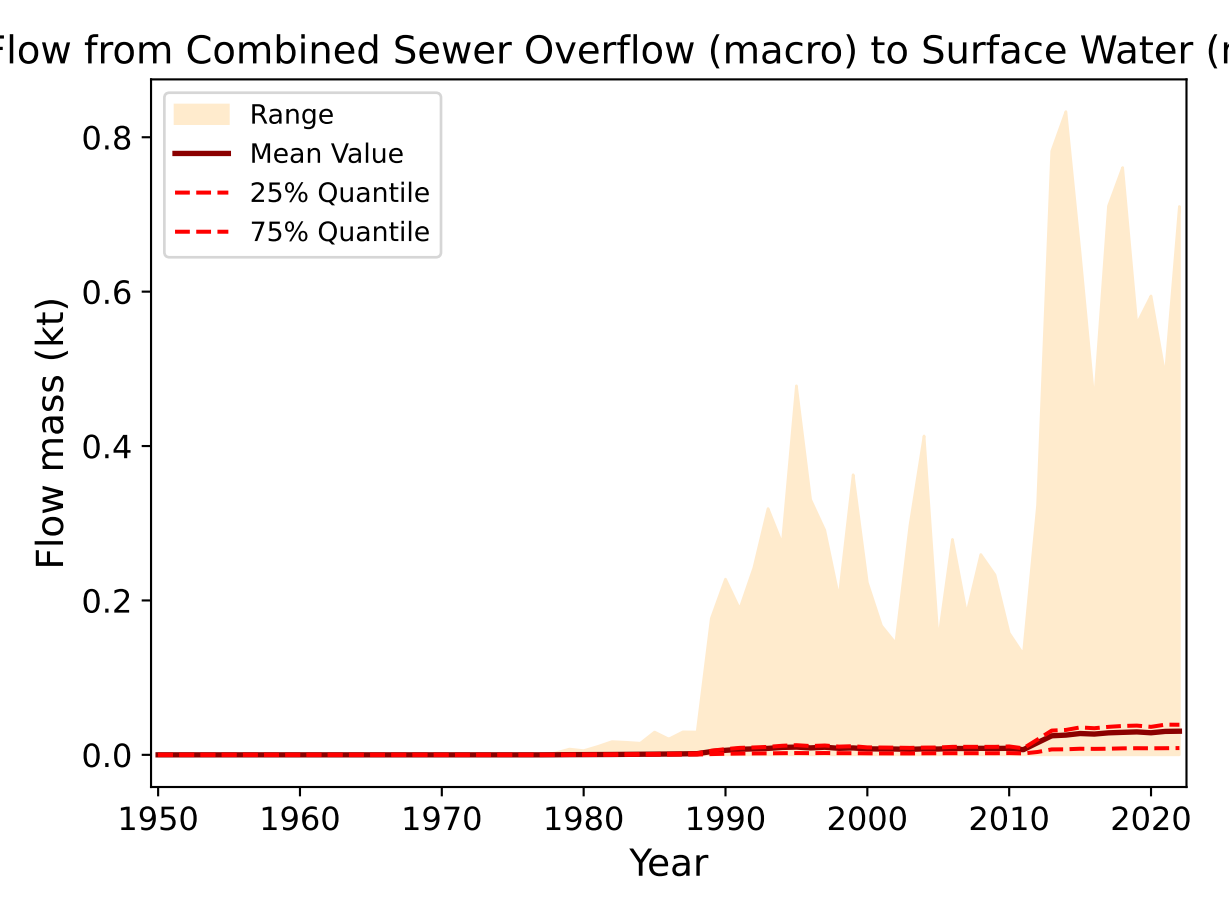

m Waste Water Treatment Plant (macro) to Combined Sewer Ove
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
1.6
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
1950
1960
1970
1980
1990
2000
2010
2020
Year

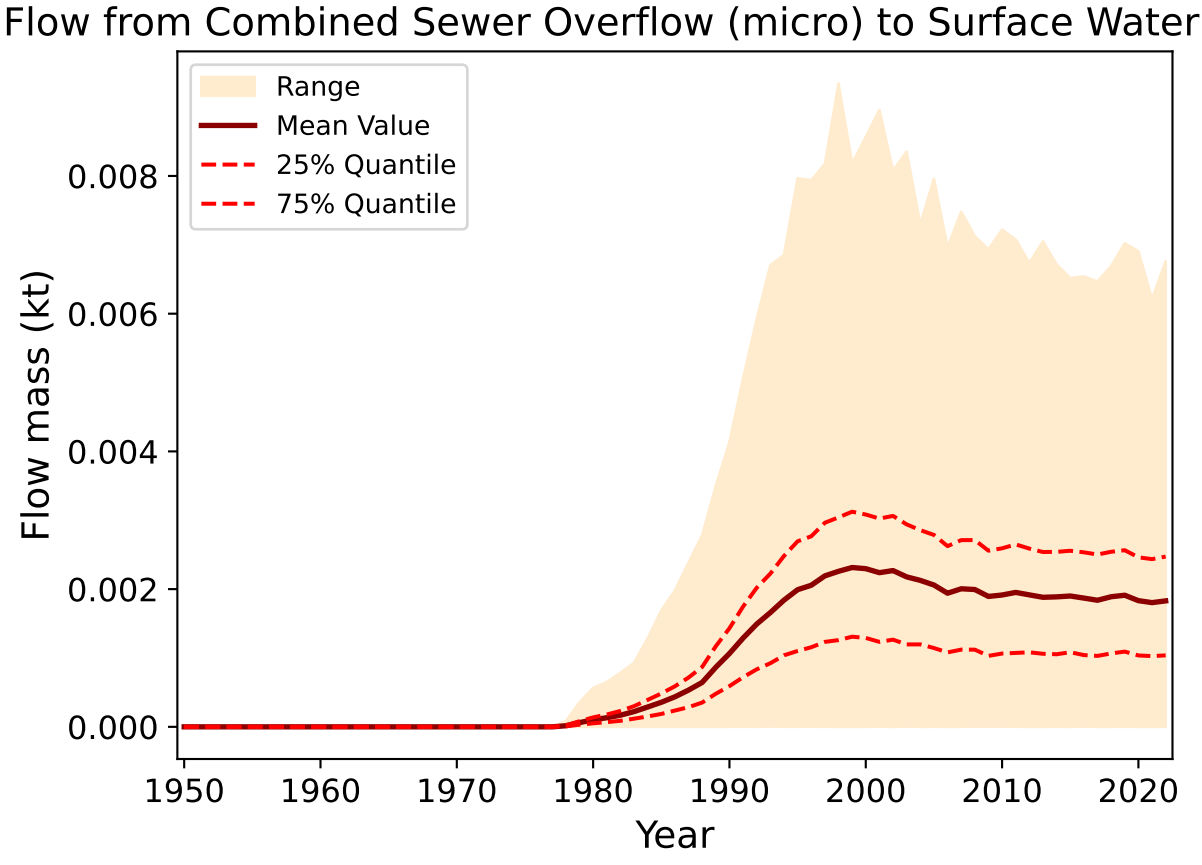

rom Waste Water Treatment Plant (micro) to Primary Water Treat
Range
Mean Value
25% Quantile
75% Quantile
0.12
0.10
0.08
0.06
0.04
0.02
0.00
Flow mass (kt)
1950
1960
1970
1980
1990
2000
2010
2020
Year

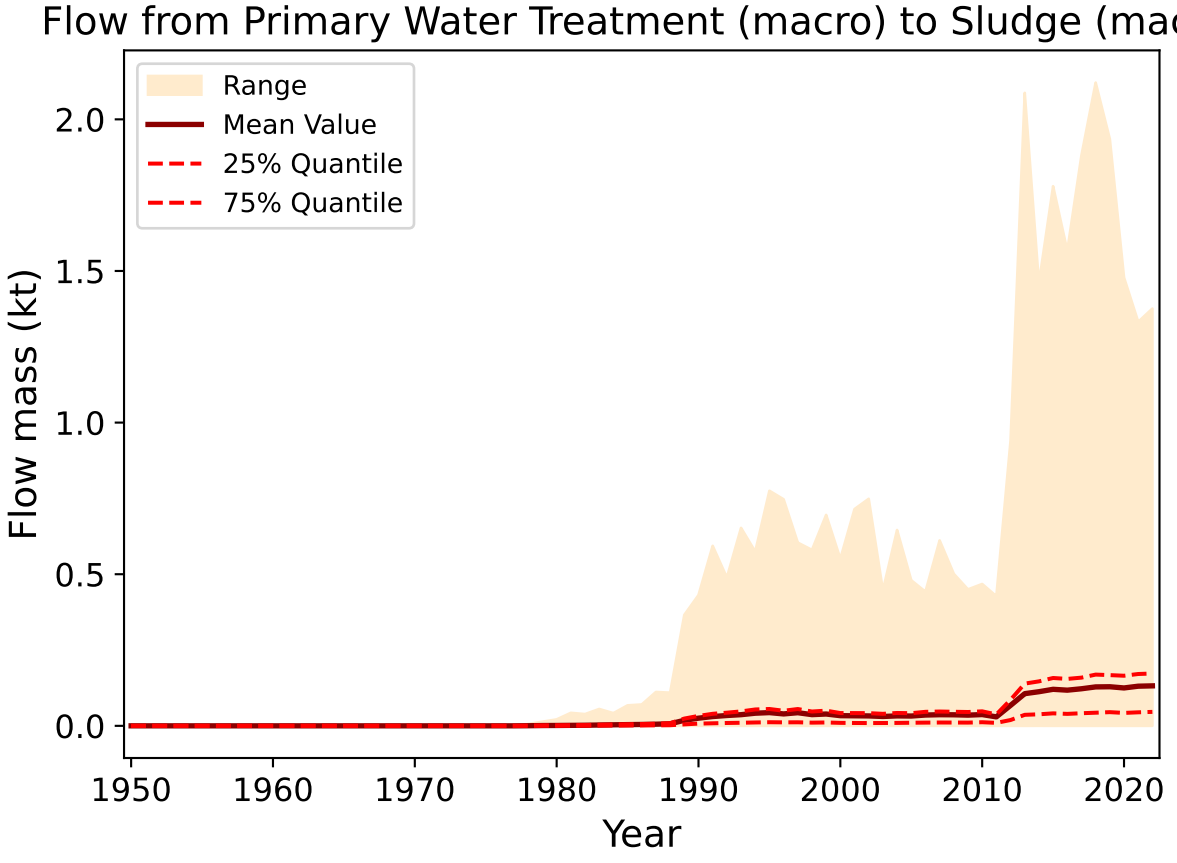

Flow from Waste Water Treatment Plant (micro) to Incinerati
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.16
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
1950
1960
1970
1980
1990
2000
2010
2020
Year

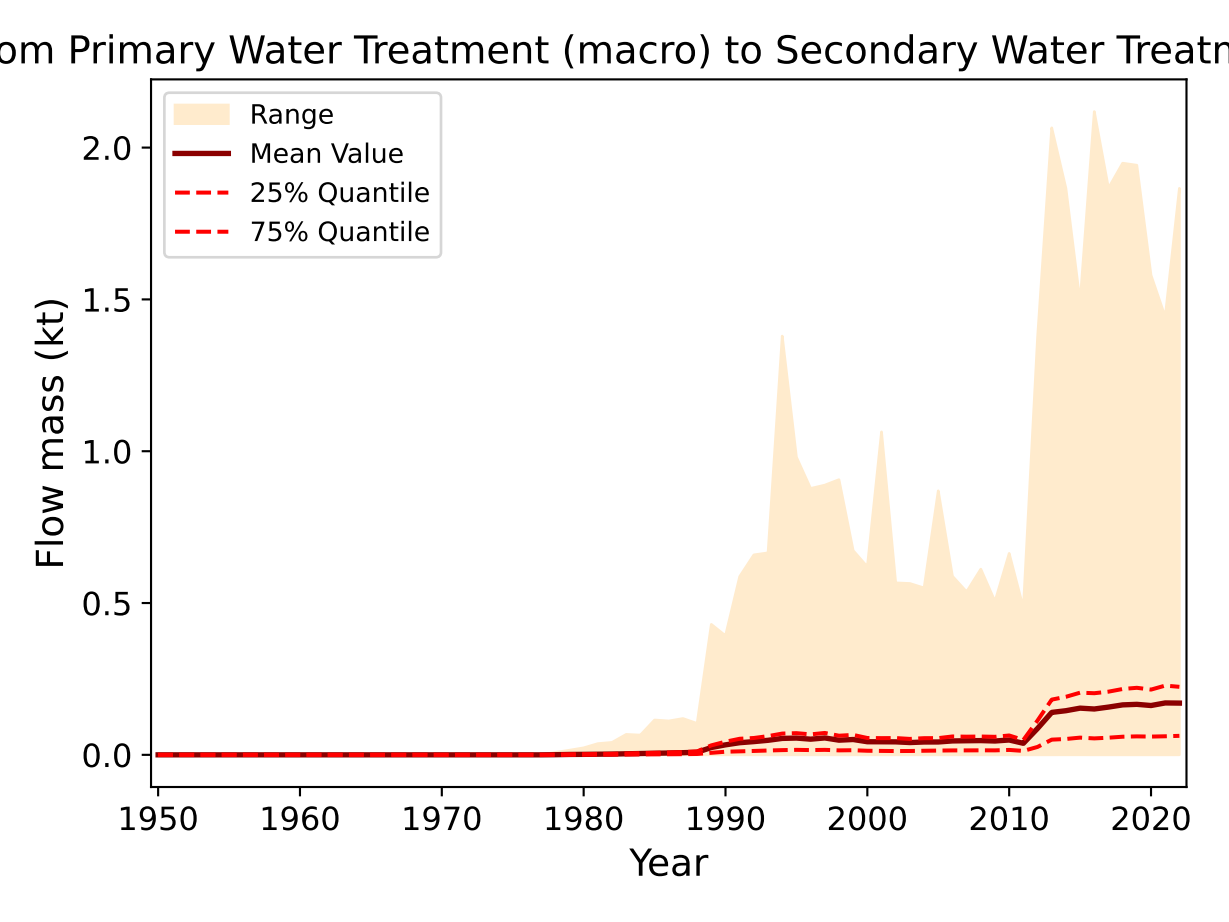

rom Waste Water Treatment Plant (micro) to Combined Sewer Ov
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.000
0.002
0.004
0.006
0.008
1950
1960
1970
1980
1990
2000
2010
2020
Year

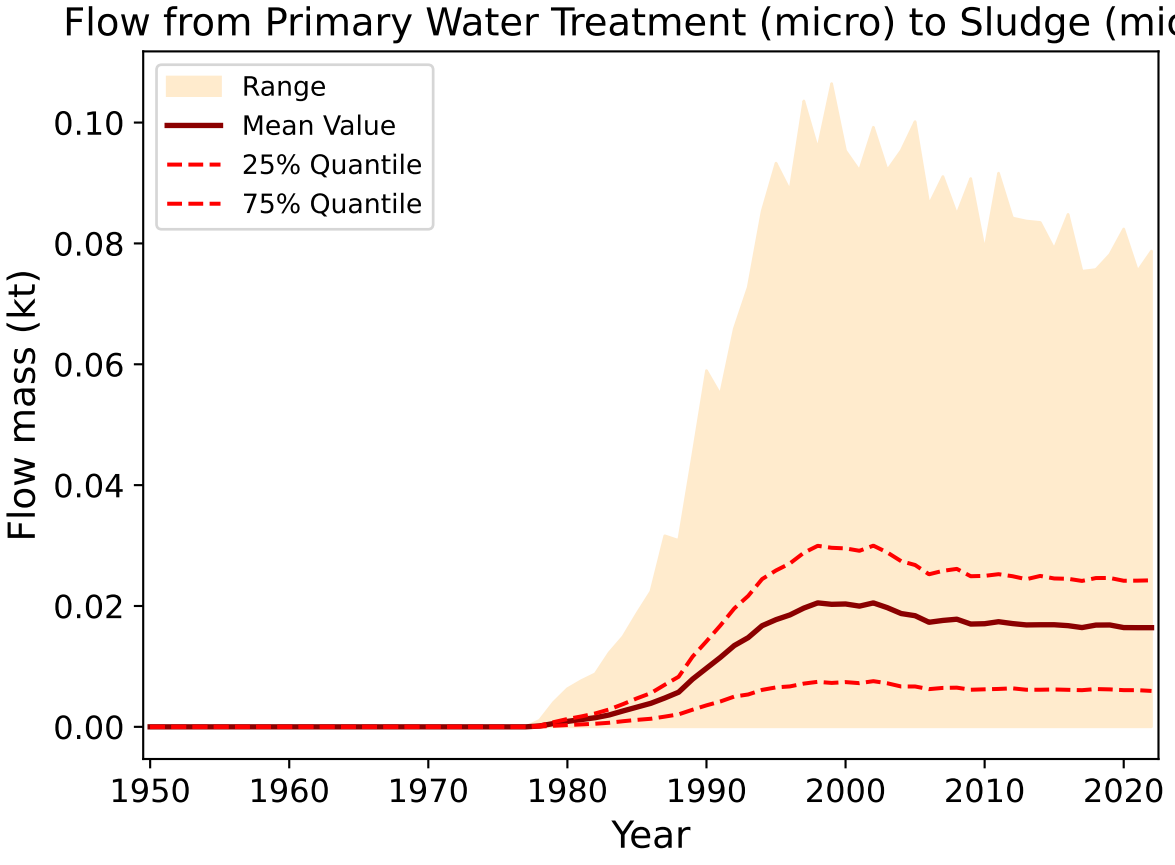

Flow from Combined Sewer Overflow (macro) to Incineratio
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0
0.2
0.4
0.6
0.8
1950
1960
1970
1980
1990
2000
2010
2020
Year

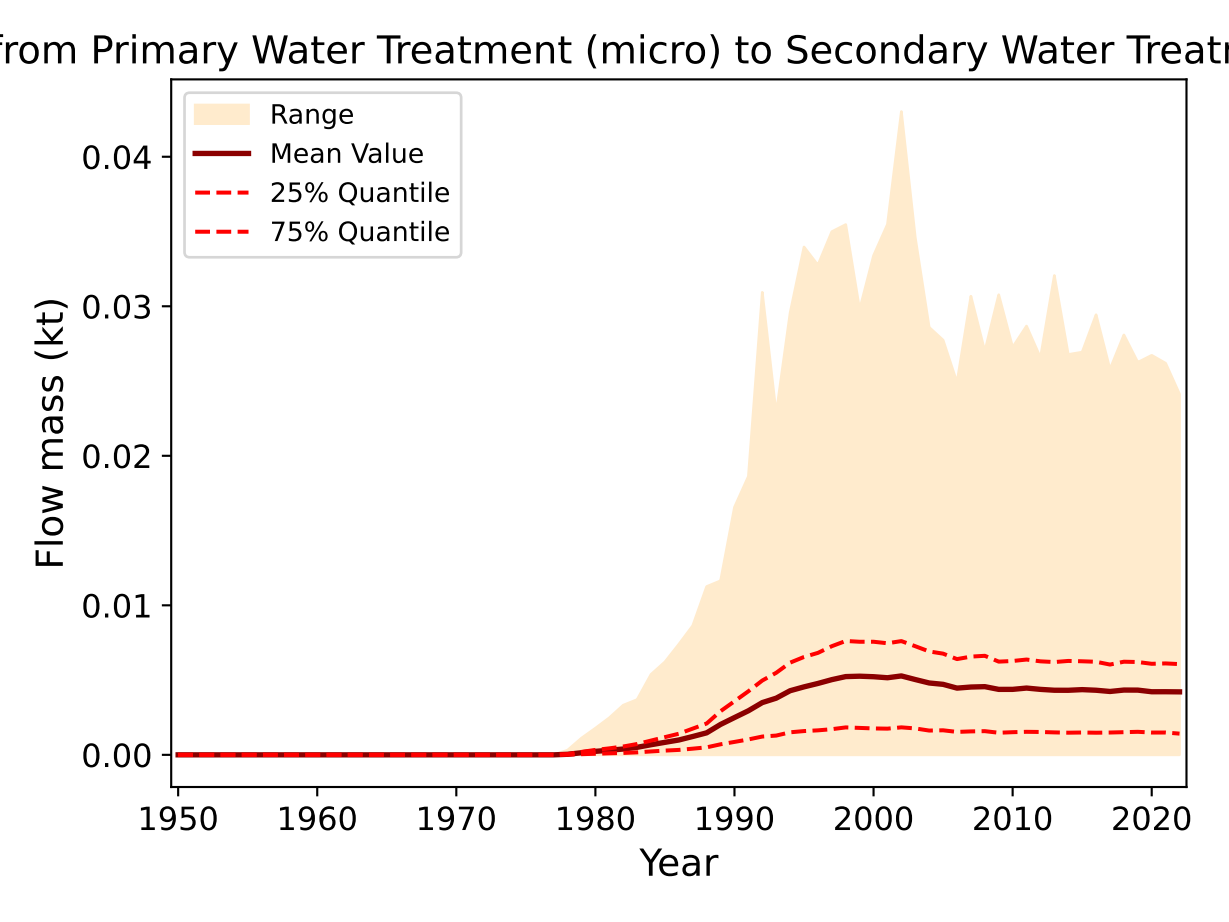

Flow from Combined Sewer Overflow (macro) to Surface Water (r
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0
0.2
0.4
0.6
0.8
1950
1960
1970
1980
1990
2000
2010
2020
Year

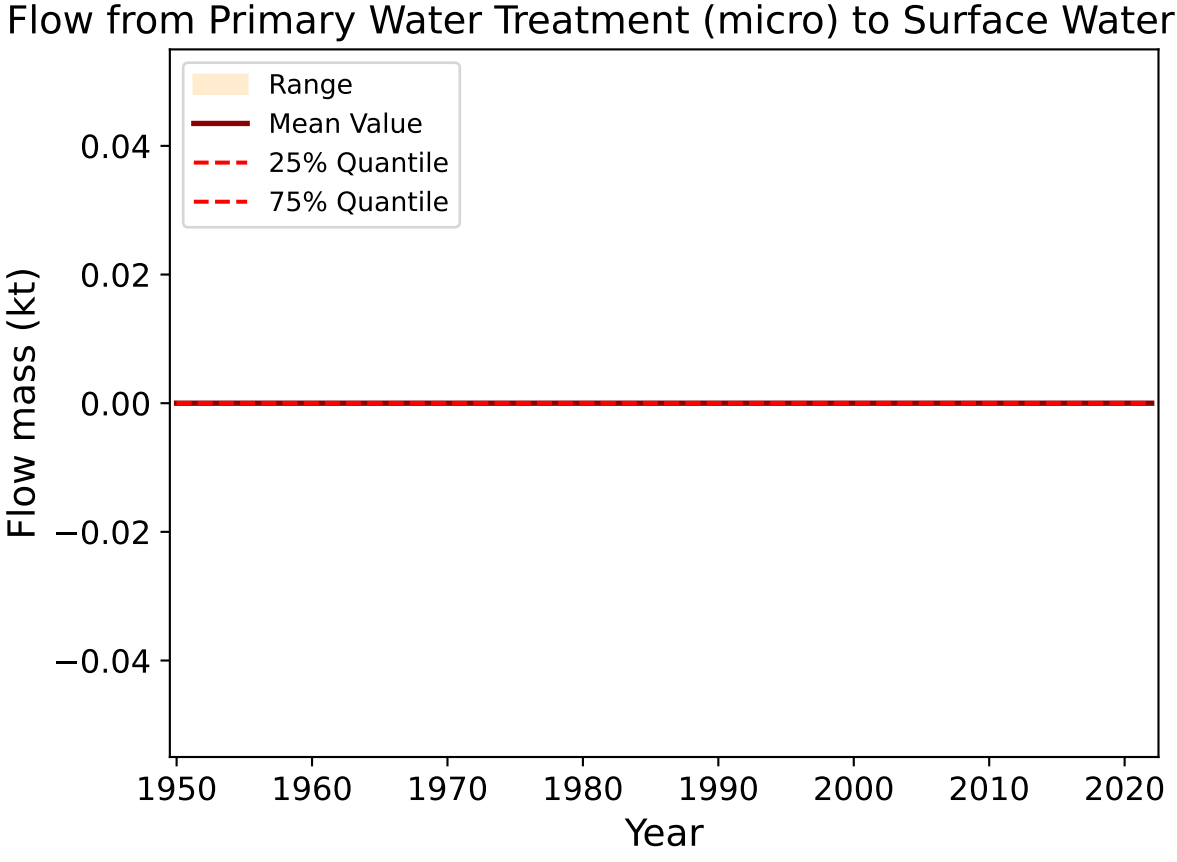

Flow from Combined Sewer Overflow (micro) to Surface Water
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.000
0.002
0.004
0.006
0.008
1950
1960
1970
1980
1990
2000
2010
2020
Year

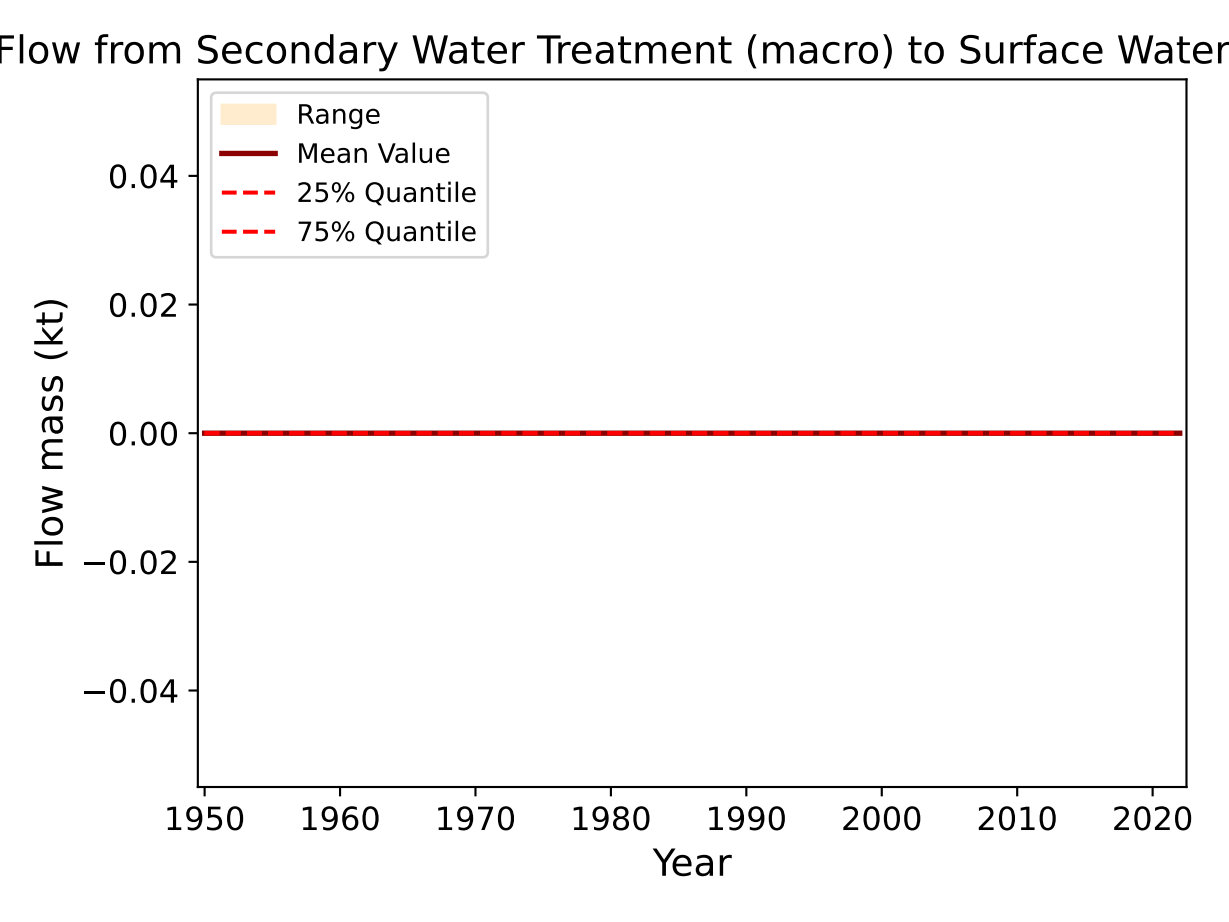

Flow from Primary Water Treatment (macro) to Sludge (macr
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
2.0
1.5
1.0
0.5
0.0
1950
1960
1970
1980
1990
2000
2010
2020
Year

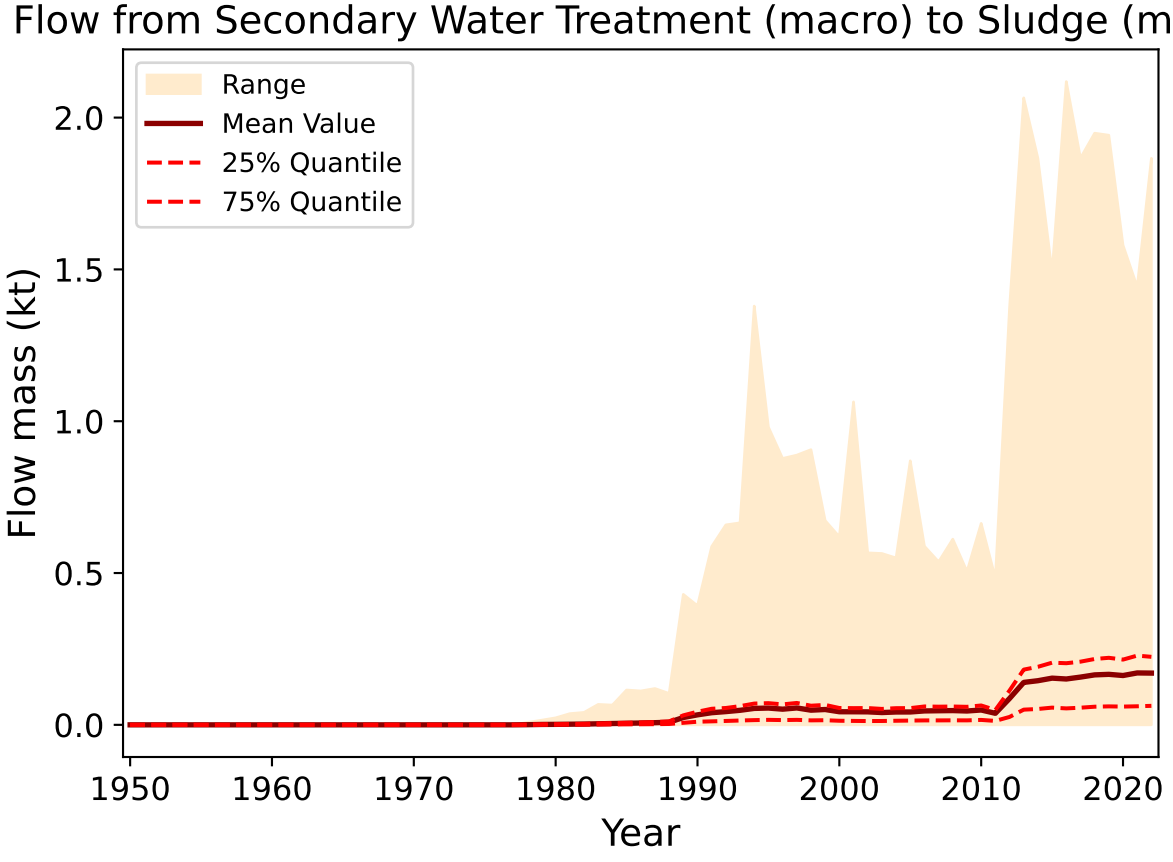

om Primary Water Treatment (macro) to Secondary Water Treatm
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
2.0
1.5
1.0
0.5
0.0
1950
1960
1970
1980
1990
2000
2010
2020
Year

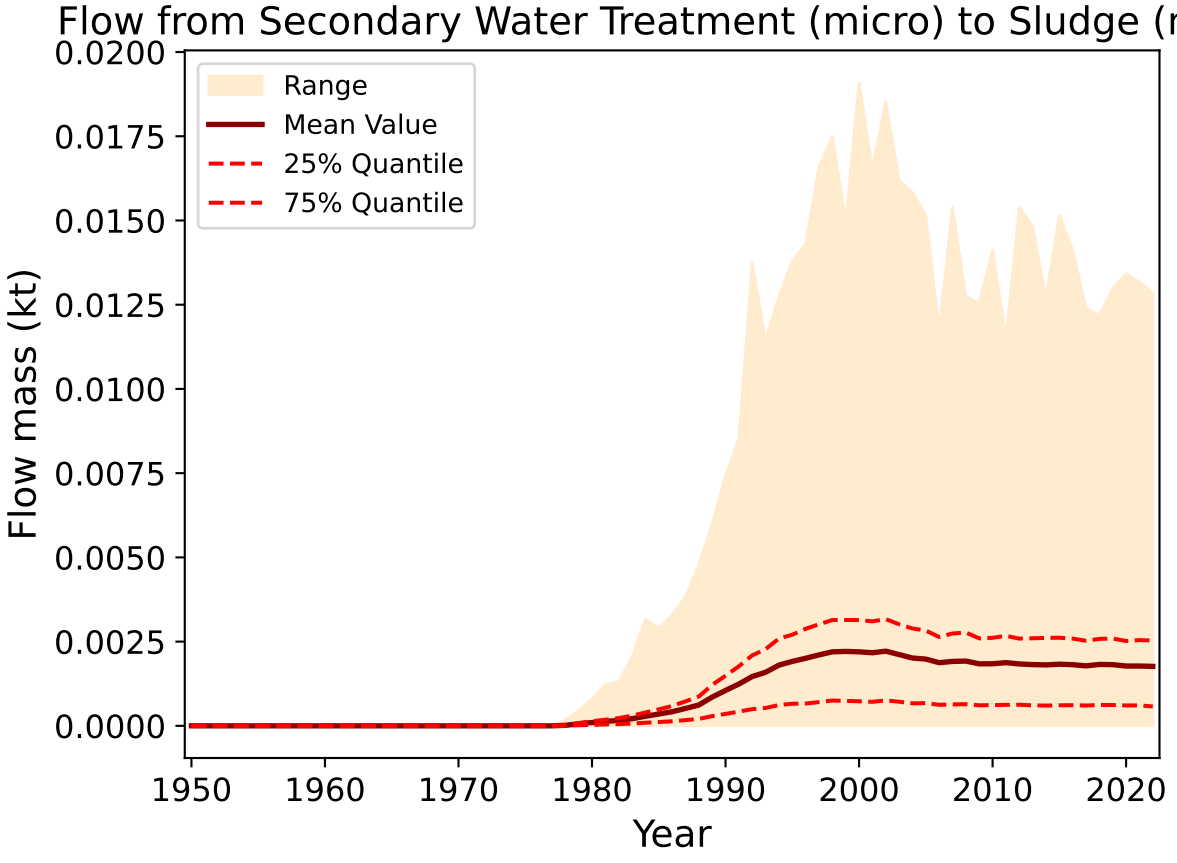

Flow from Primary Water Treatment (micro) to Sludge (micr
Range
Mean Value
25% Quantile
75% Quantile
0.10
0.08
0.06
0.04
0.02
0.00
Flow mass (kt)
1950
1960
1970
1980
1990
2000
2010
2020
Year

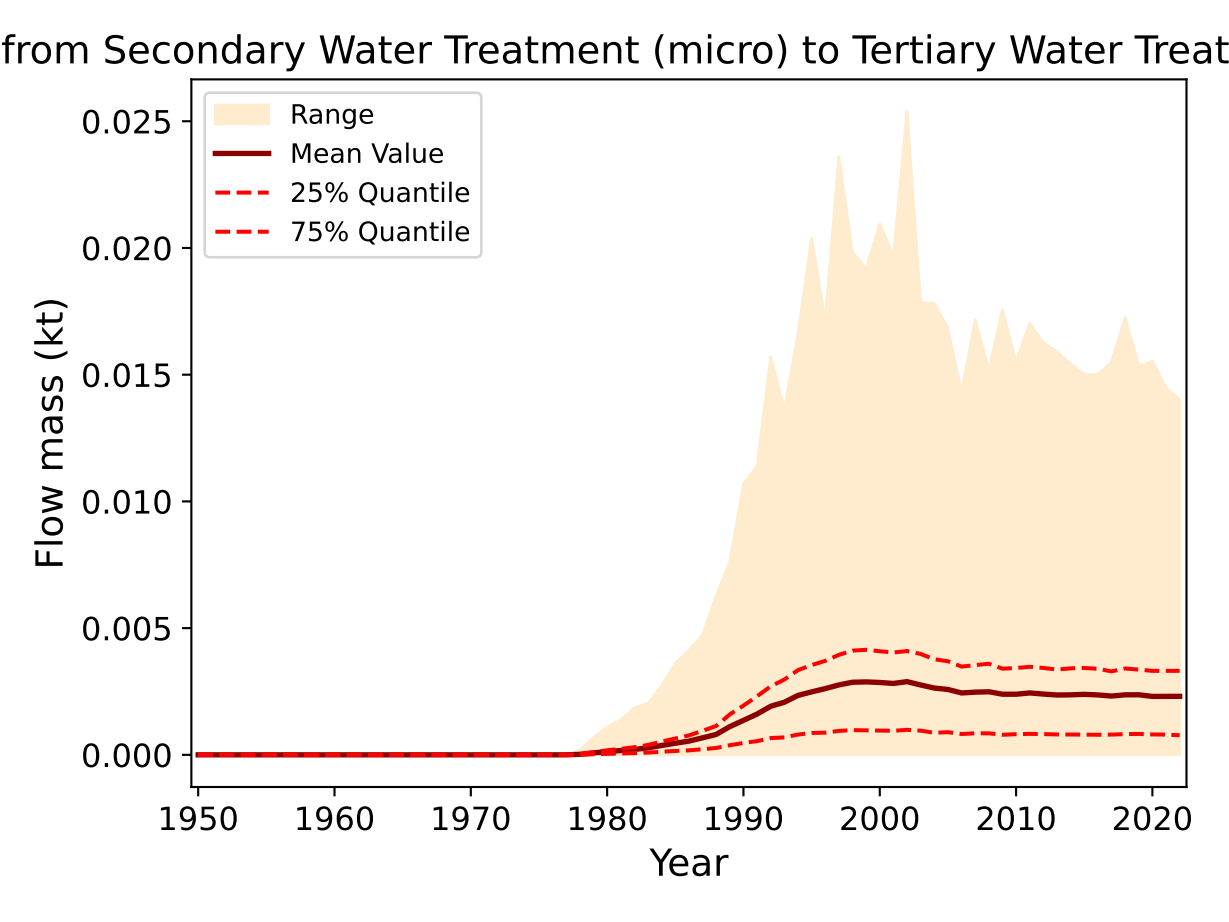

from Primary Water Treatment (micro) to Secondary Water Treatı
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.00
0.01
0.02
0.03
0.04
1950
1960
1970
1980
1990
2000
2010
2020
Year

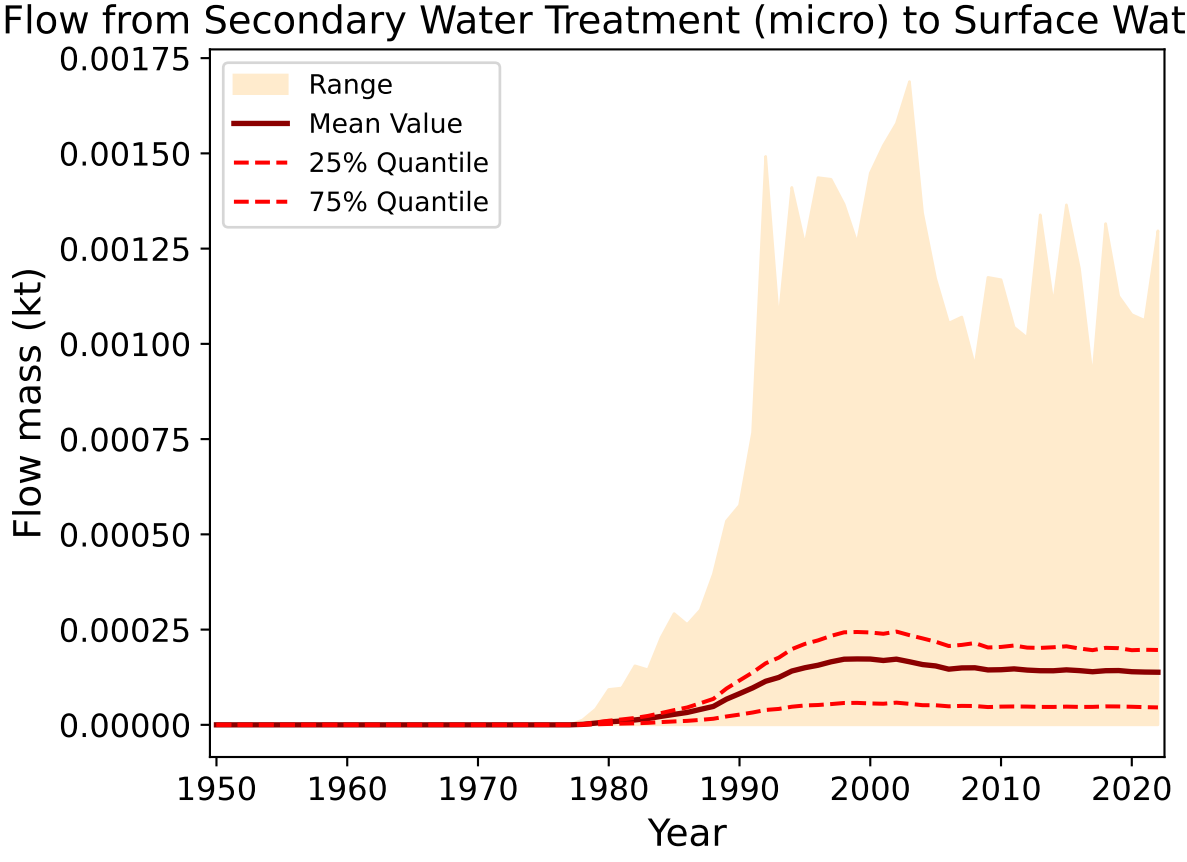

Flow from Primary Water Treatment (micro) to Surface Water (
Range
Mean Value
25% Quantile
75% Quantile
0.04
0.02
0.00
−0.02
−0.04
Flow mass (kt)
1950
1960
1970
1980
1990
2000
2010
2020
Year

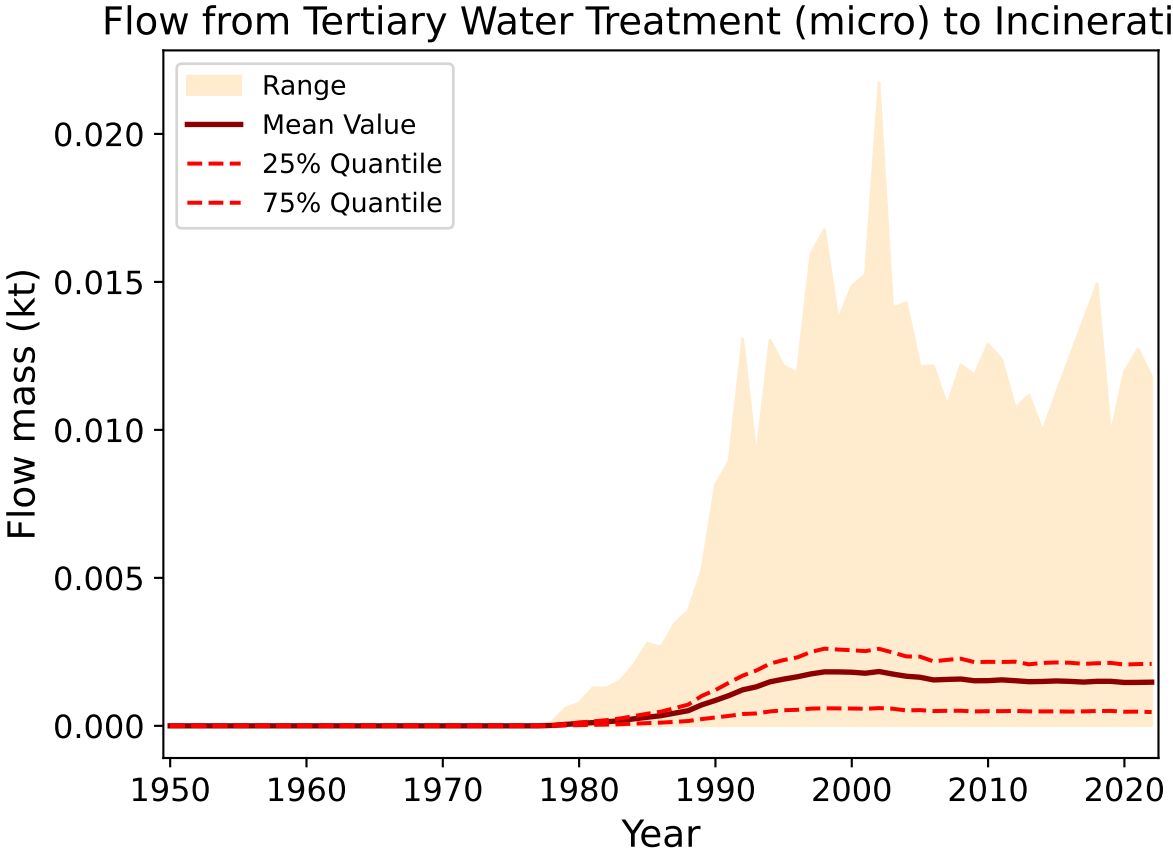

Flow from Secondary Water Treatment (macro) to Surface Water
Range
Mean Value
25% Quantile
75% Quantile
0.04
0.02
0.00
−0.02
−0.04
Flow mass (kt)
1950
1960
1970
1980
1990
2000
2010
2020
Year

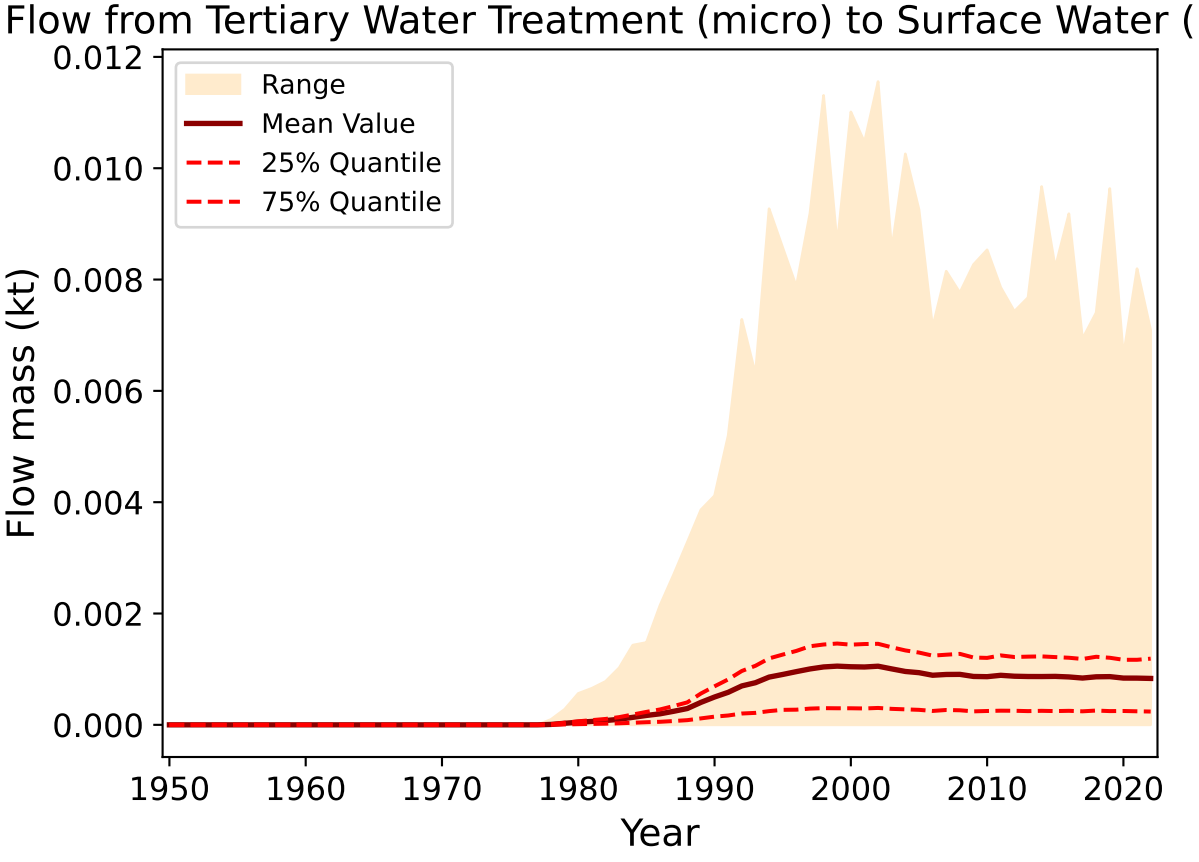

Flow from Secondary Water Treatment (macro) to Sludge (ma
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
2.0
1.5
1.0
0.5
0.0
1950
1960
1970
1980
1990
2000
2010
2020
Year

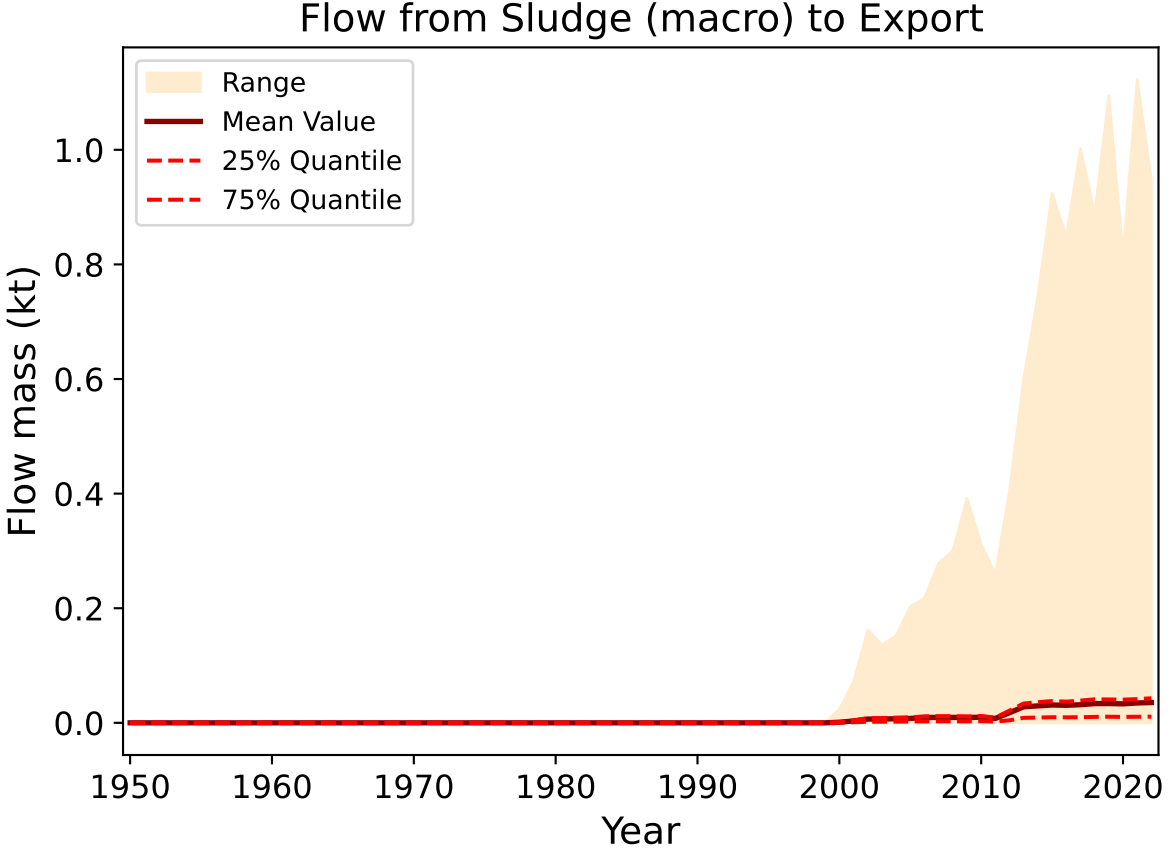

Flow from Secondary Water Treatment (micro) to Sludge (m
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0.0000
1950
1960
1970
1980
1990
2000
2010
2020
Year

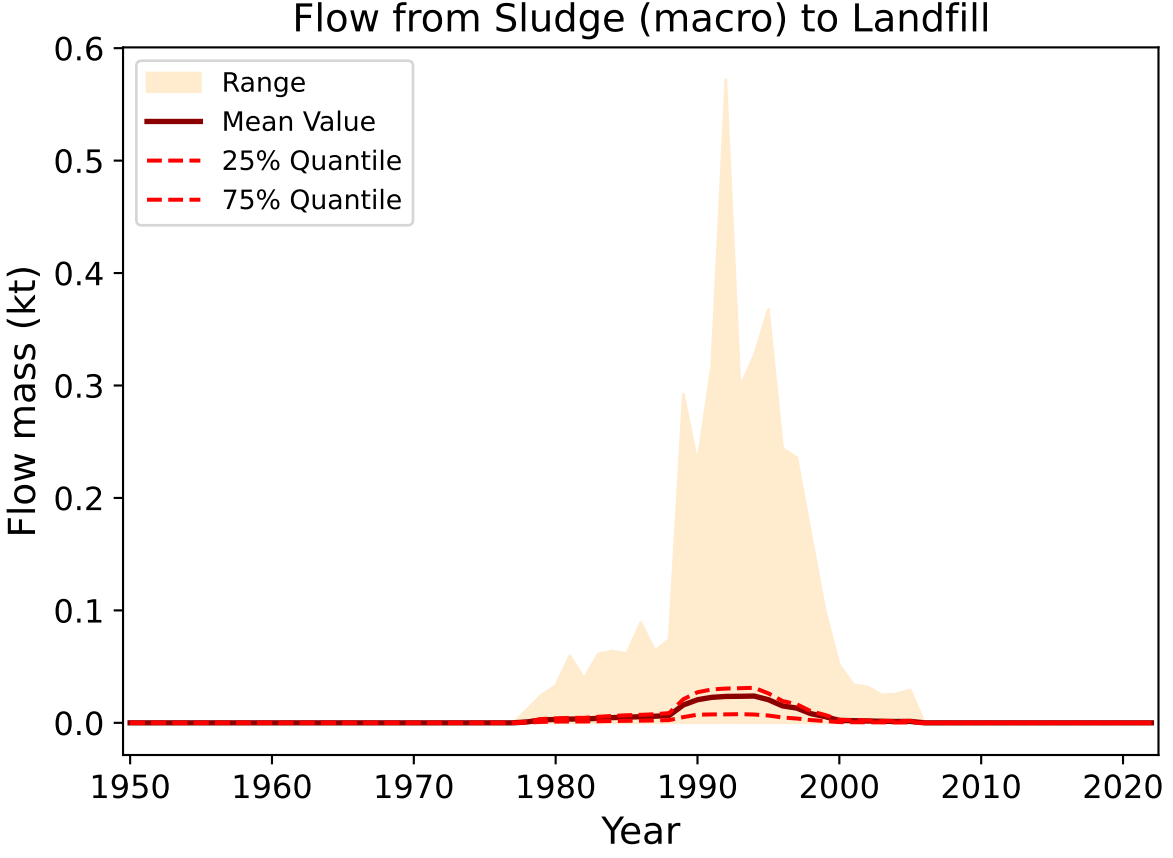

from Secondary Water Treatment (micro) to Tertiary Water Treat
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.025
0.020
0.015
0.010
0.005
0.000
1950
1960
1970
1980
1990
2000
2010
2020
Year

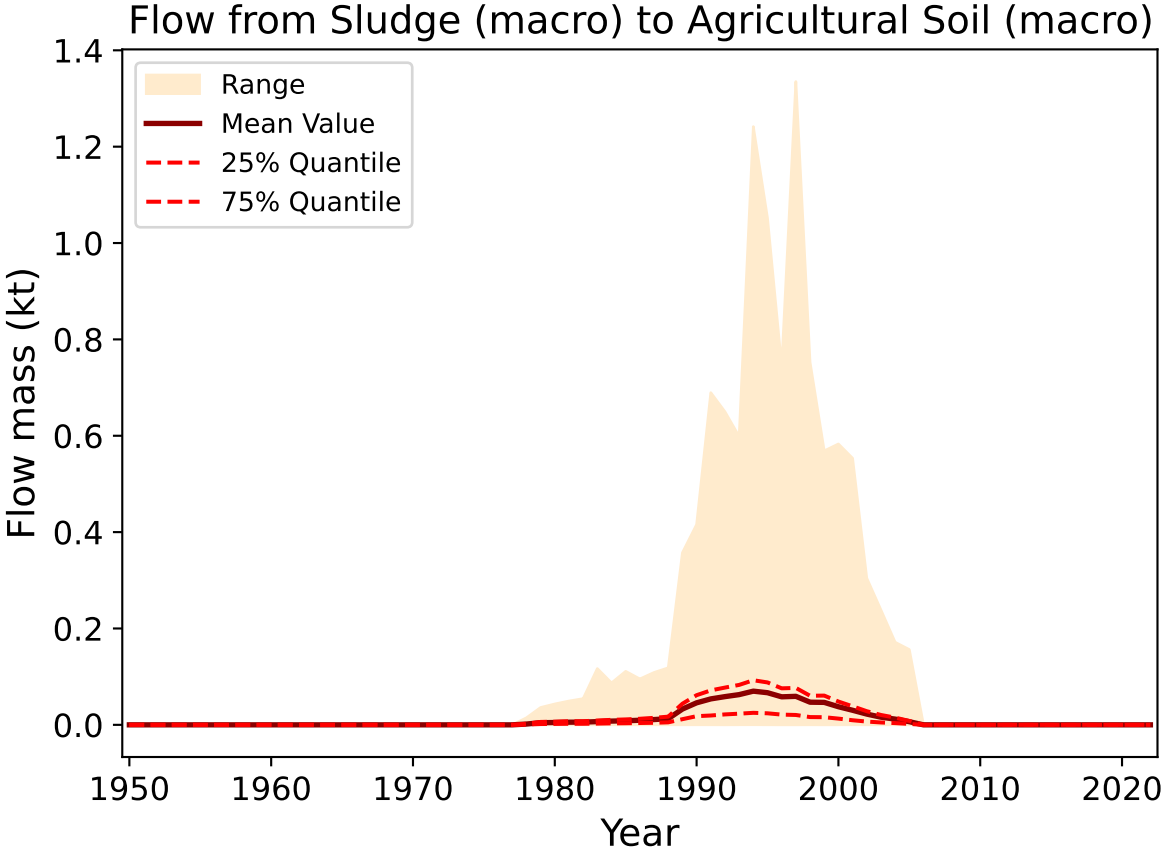

Flow from Secondary Water Treatment (micro) to Surface Wate
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.00175
0.00150
0.00125
0.00100
0.00075
0.00050
0.00025
0.00000
1950
1960
1970
1980
1990
2000
2010
2020
Year

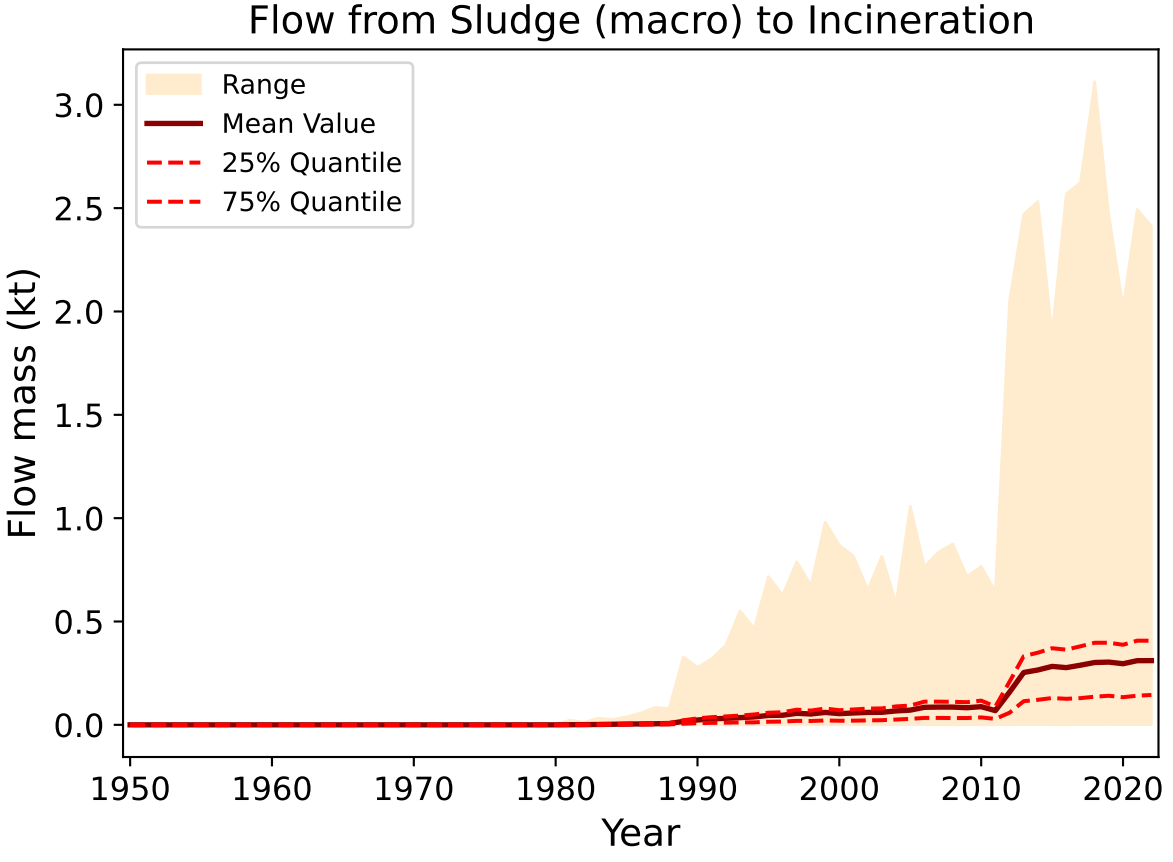

Flow from Tertiary Water Treatment (micro) to Incineratio
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.020
0.015
0.010
0.005
0.000
1950
1960
1970
1980
1990
2000
2010
2020
Year

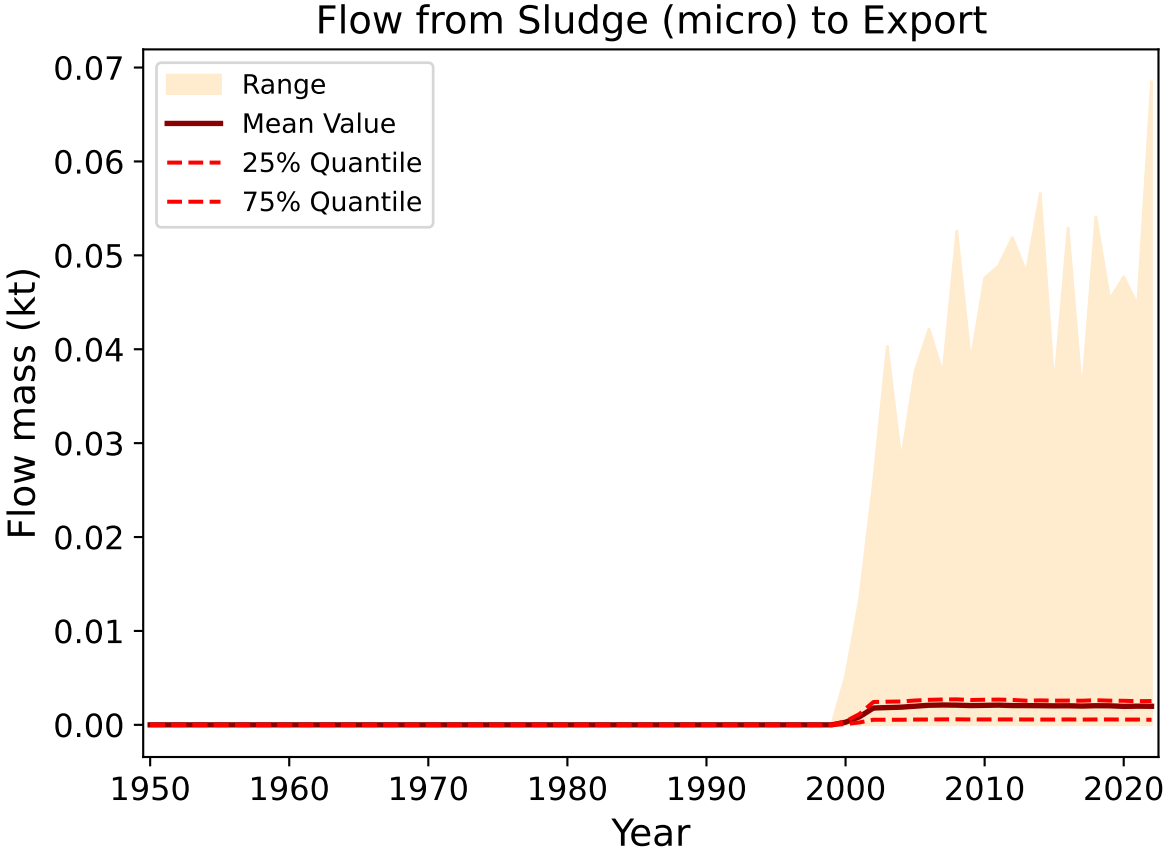

Flow from Tertiary Water Treatment (micro) to Surface Water (
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.012
0.010
0.008
0.006
0.004
0.002
0.000
1950
1960
1970
1980
1990
2000
2010
2020
Year

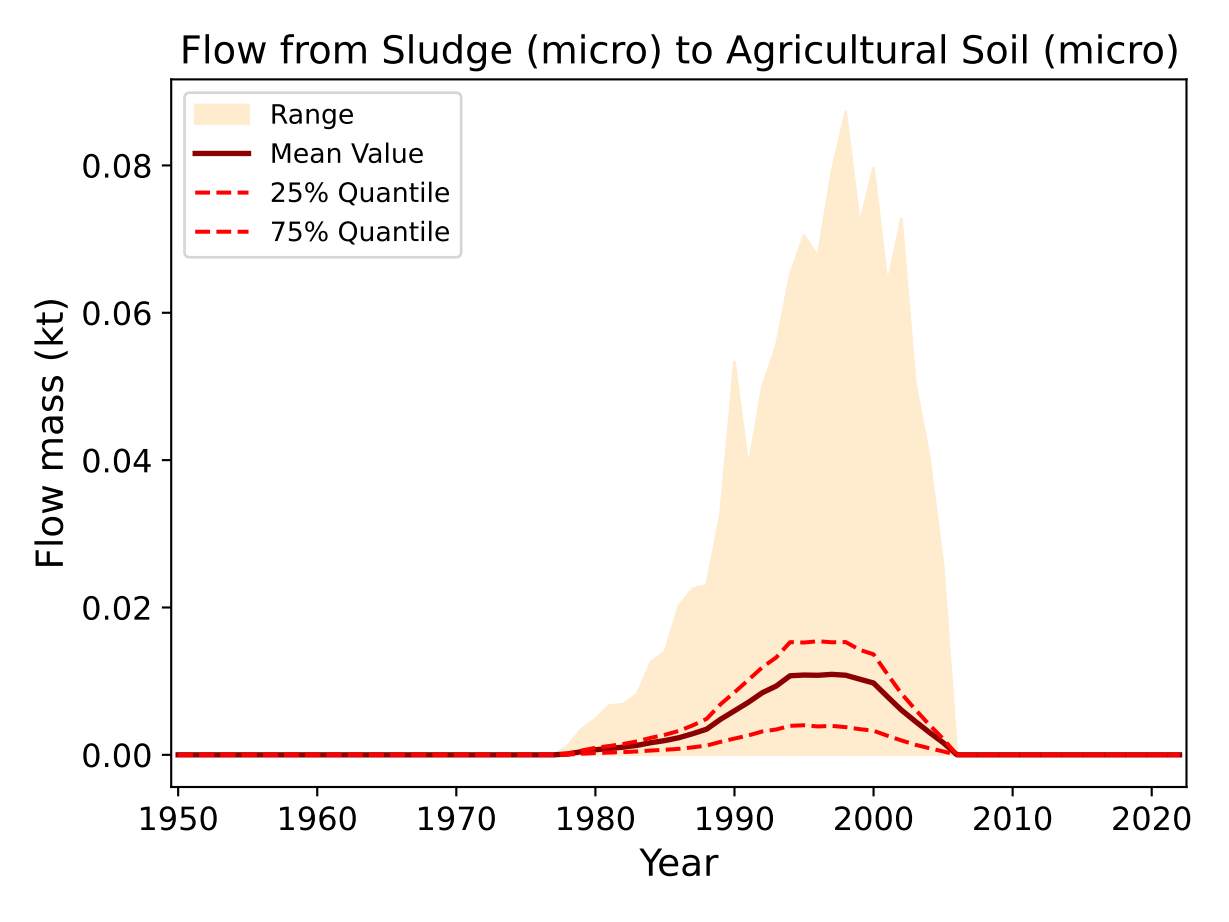

Flow from Sludge (macro) to Export
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0
0.2
0.4
0.6
0.8
1.0
1950
1960
1970
1980
1990
2000
2010
2020
Year

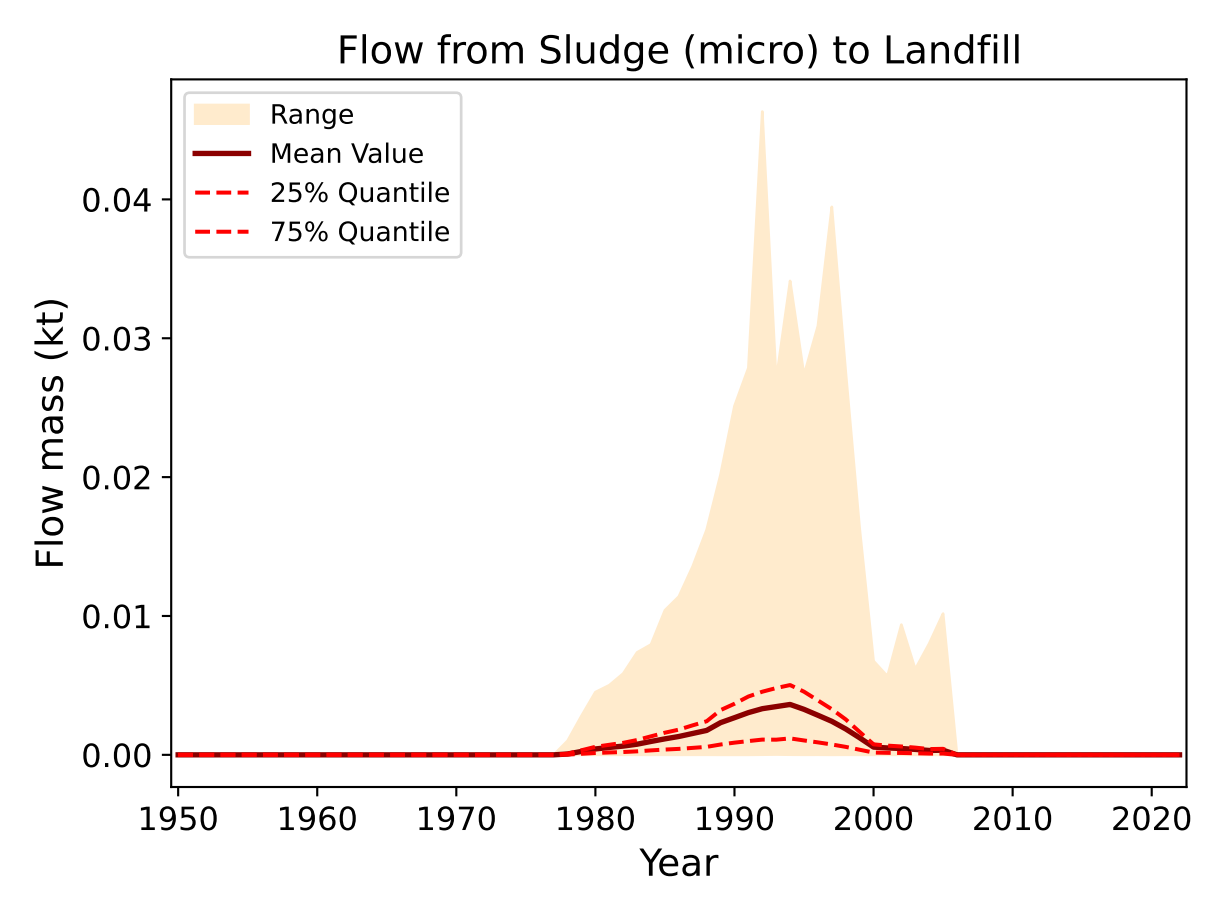

Flow from Sludge (macro) to Landfill
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.6
0.5
0.4
0.3
0.2
0.1
0.0
1950
1960
1970
1980
1990
2000
2010
2020
Year

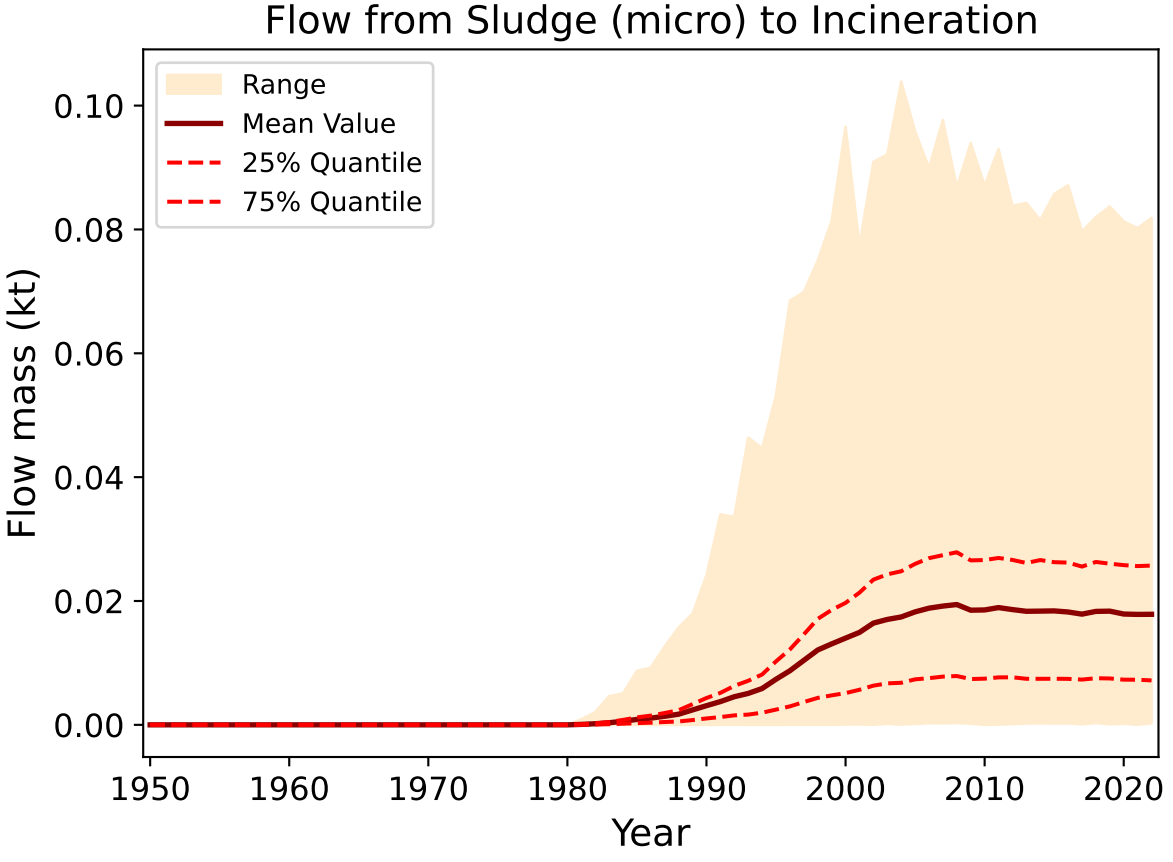

Flow from Sludge (macro) to Agricultural Soil (macro)
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
1.4
1.2
1.0
0.8
0.6
0.4
0.2
0.0
1950
1960
1970
1980
1990
2000
2010
2020
Year

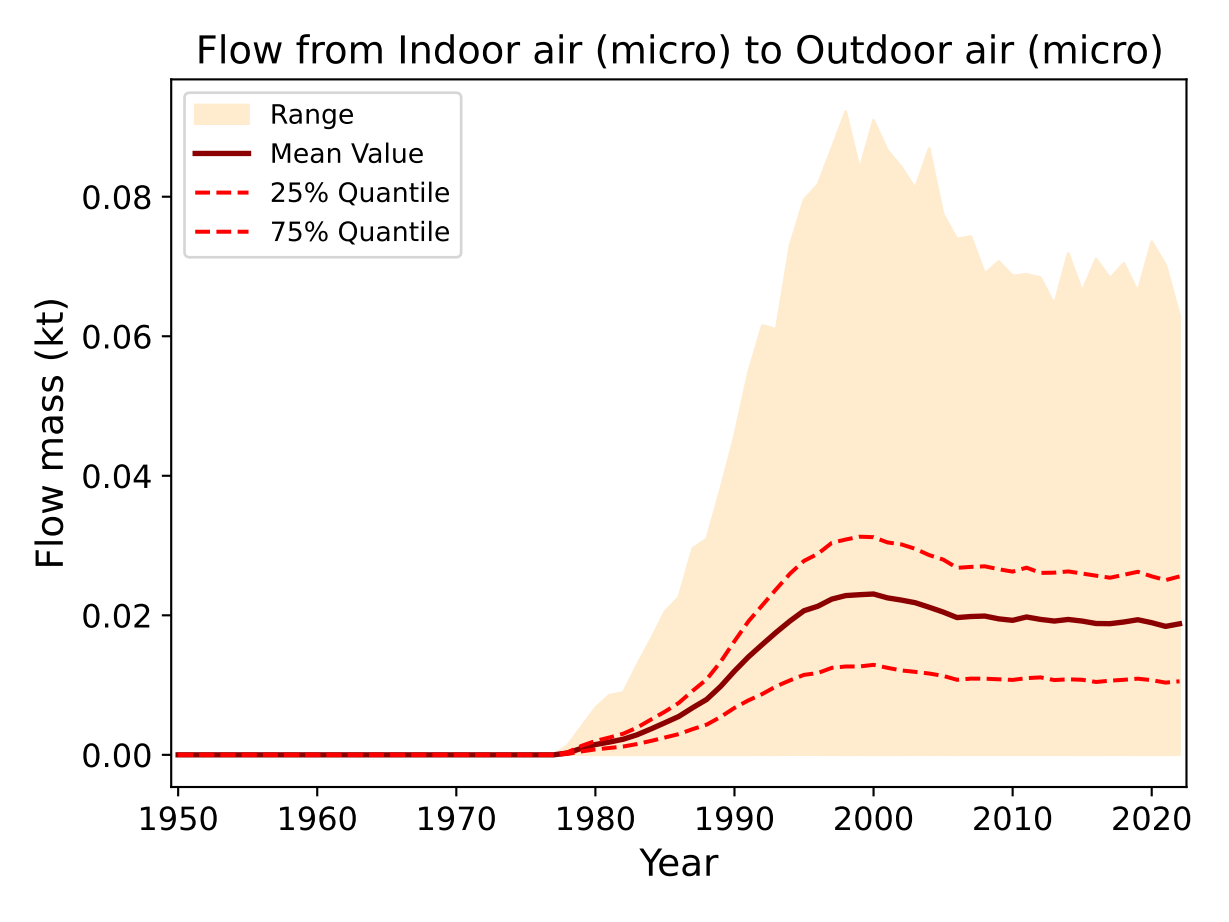

Flow from Sludge (macro) to Incineration
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
3.0
2.5
2.0
1.5
1.0
0.5
0.0
1950
1960
1970
1980
1990
2000
2010
2020
Year

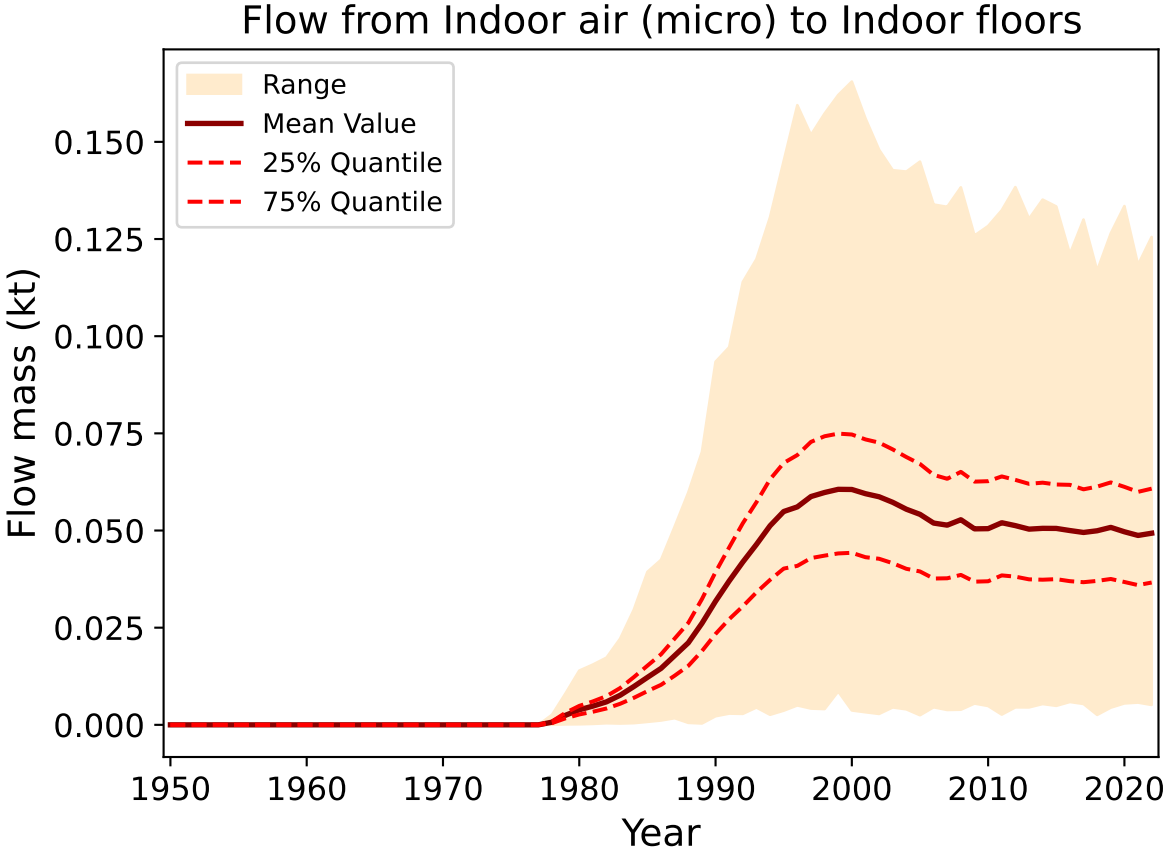

Flow from Sludge (micro) to Export
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
1950
1960
1970
1980
1990
2000
2010
2020
Year

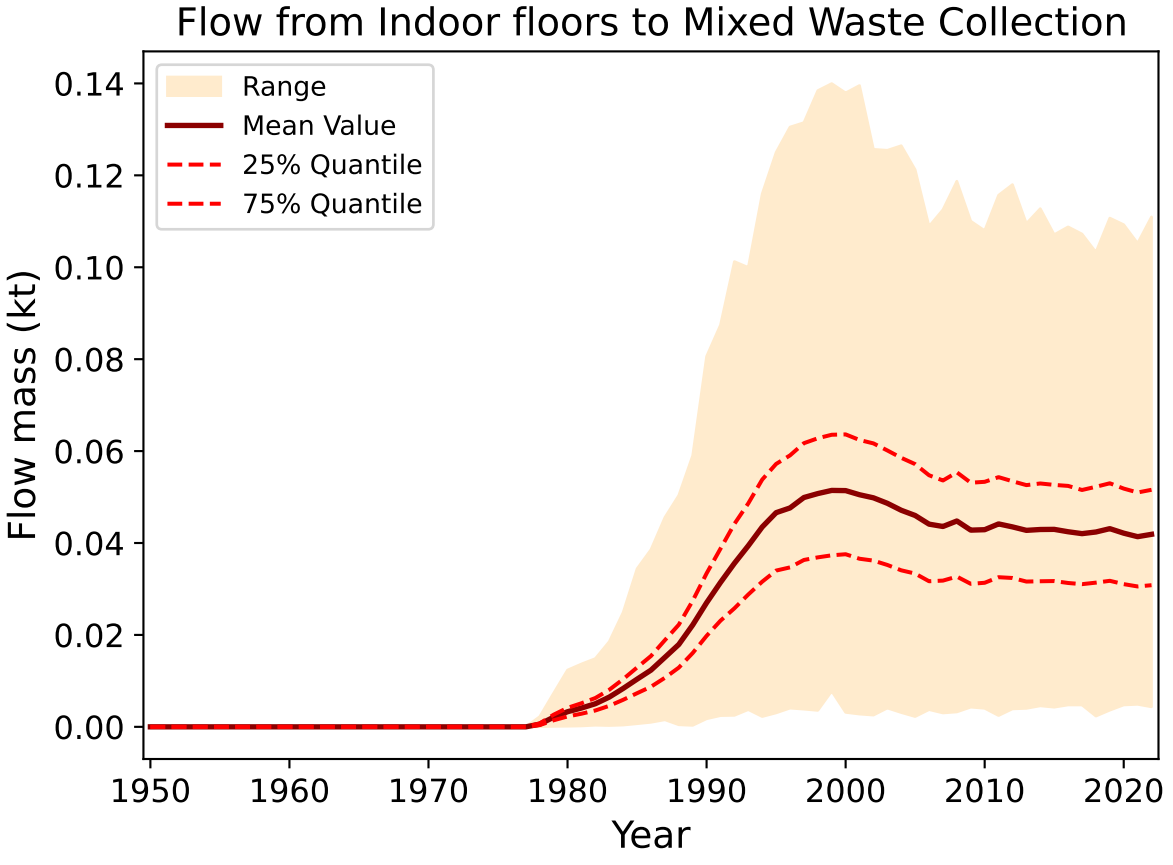

Flow from Sludge (micro) to Agricultural Soil (micro)
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.00
0.02
0.04
0.06
0.08
1950
1960
1970
1980
1990
2000
2010
2020
Year

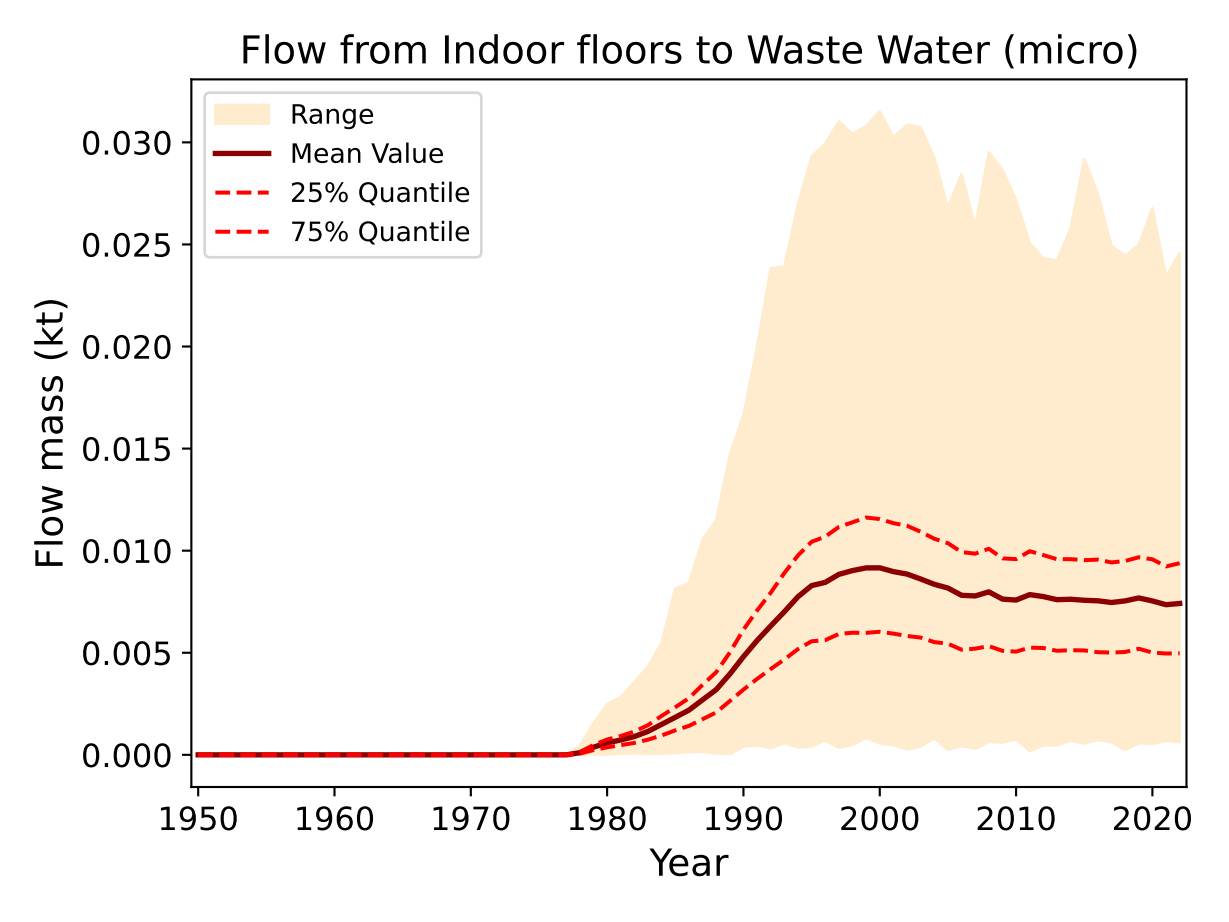

Flow from Sludge (micro) to Landfill
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.00
0.01
0.02
0.03
0.04
1950
1960
1970
1980
1990
2000
2010
2020
Year

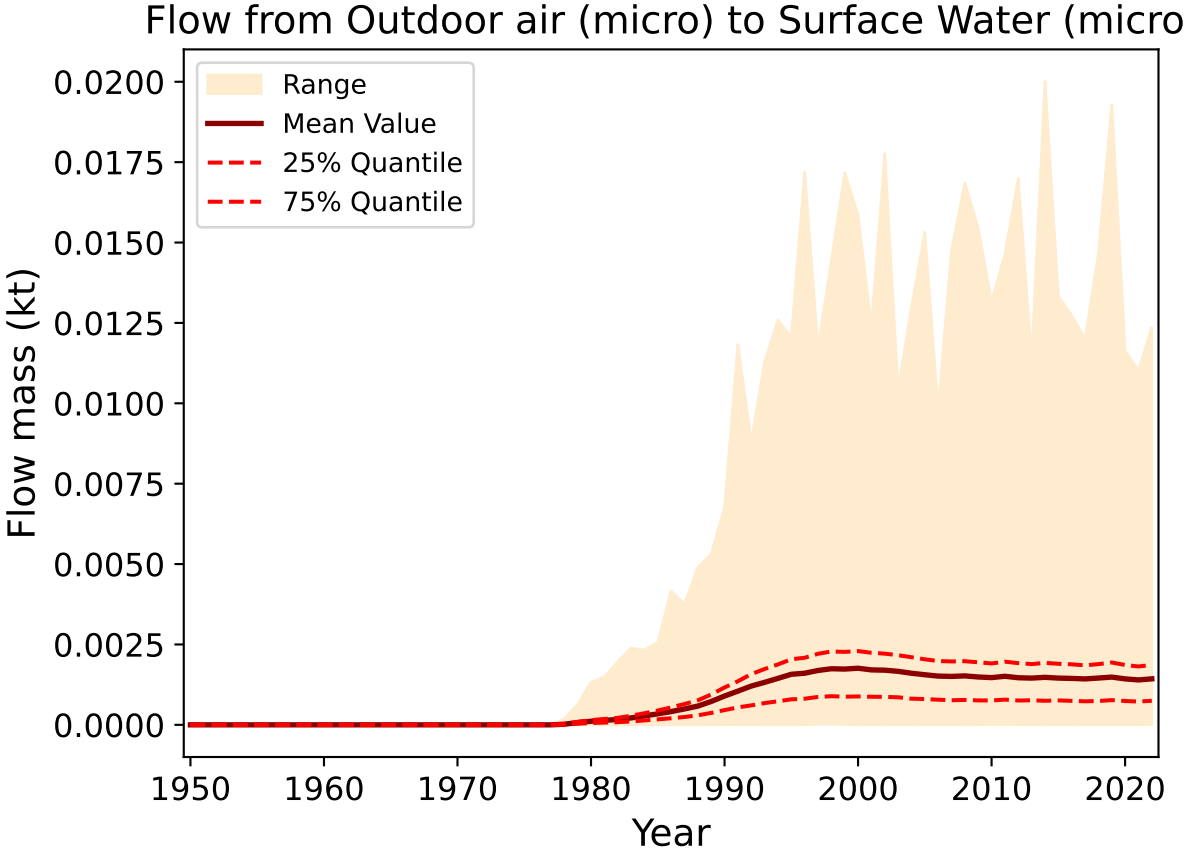

Flow from Sludge (micro) to Incineration
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.10
0.08
0.06
0.04
0.02
0.00
1950
1960
1970
1980
1990
2000
2010
2020
Year

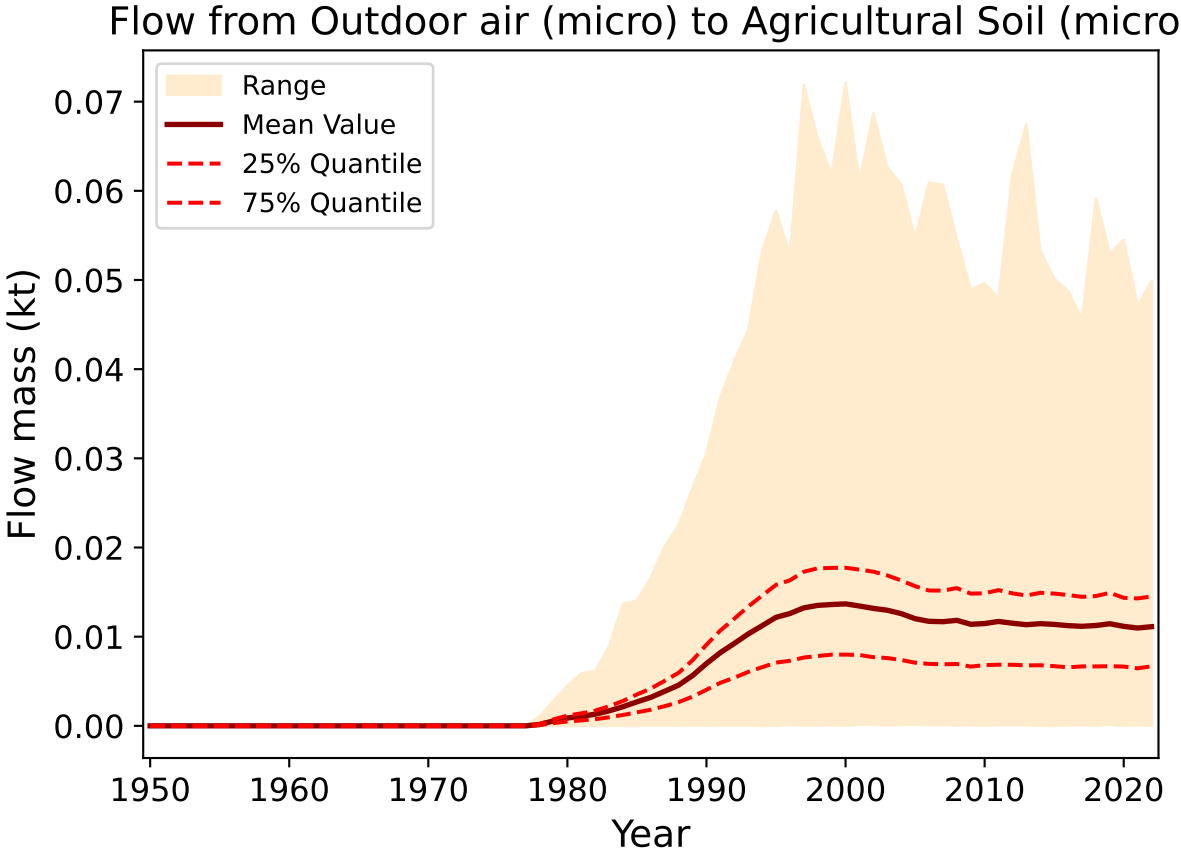

Flow from Indoor air (micro) to Outdoor air (micro)
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.00
0.02
0.04
0.06
0.08
1950
1960
1970
1980
1990
2000
2010
2020
Year

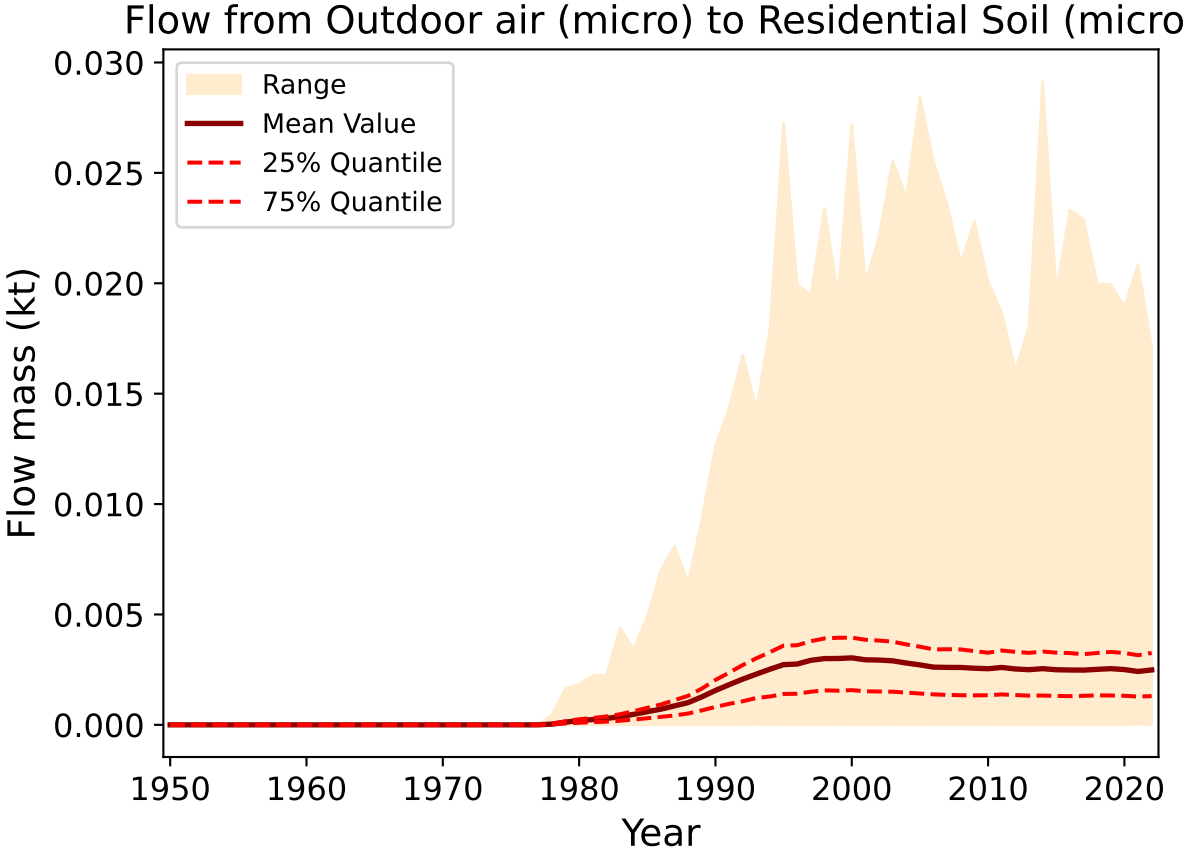

Flow from Indoor air (micro) to Indoor floors
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.150
0.125
0.100
0.075
0.050
0.025
0.000
1950
1960
1970
1980
1990
2000
2010
2020
Year

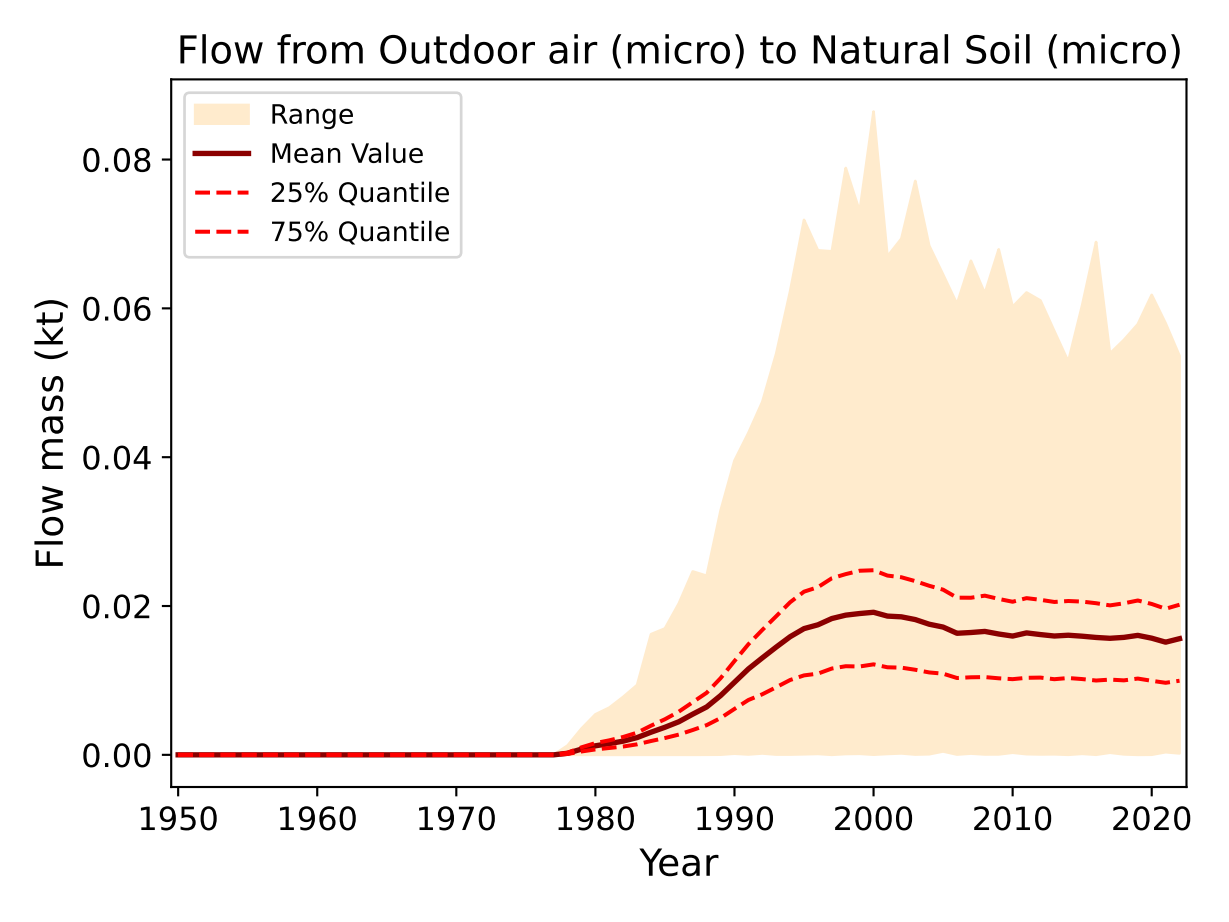

Flow from Indoor floors to Mixed Waste Collection
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.14
0.12
0.10
0.08
0.06
0.04
0.02
0.00
1950
1960
1970
1980
1990
2000
2010
2020
Year

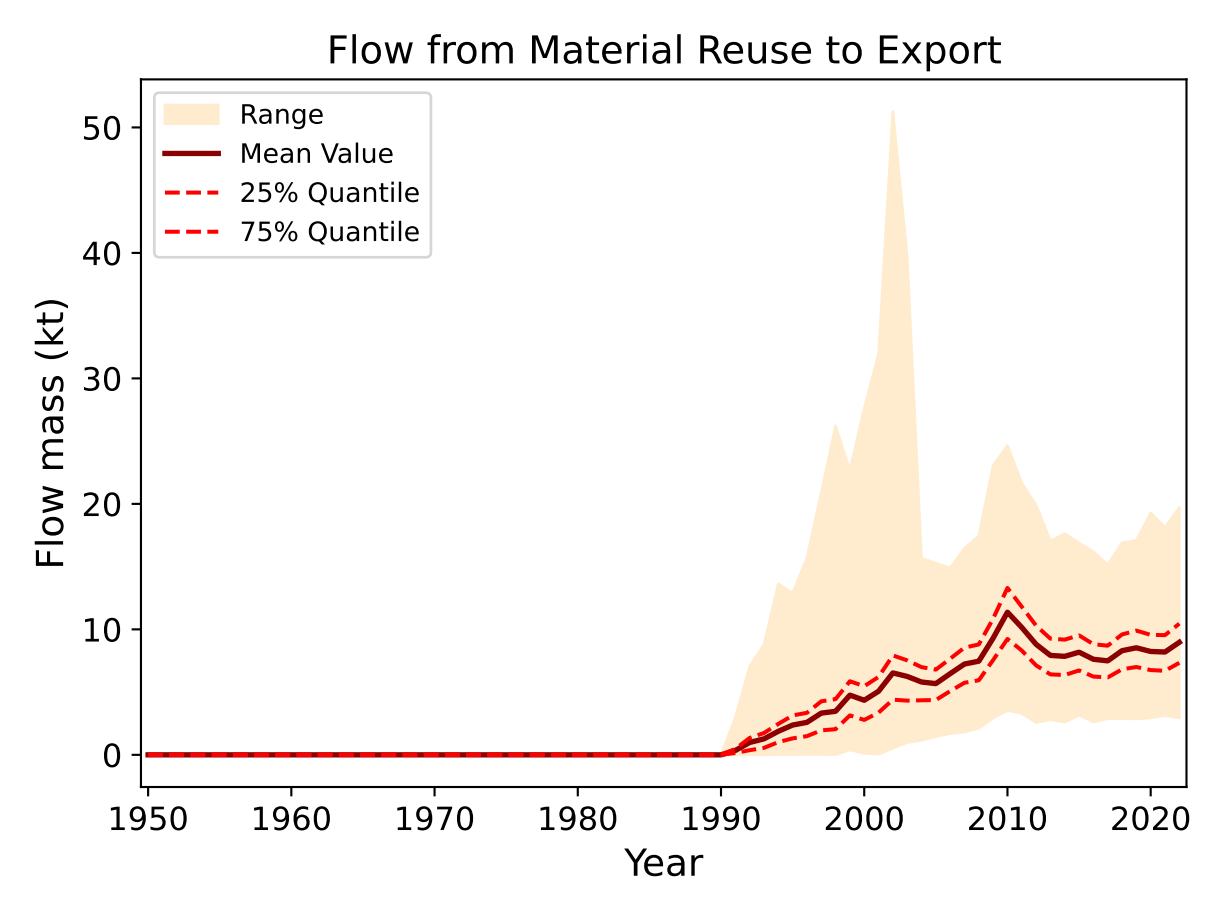

Flow from Indoor floors to Waste Water (micro)
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.030
0.025
0.020
0.015
0.010
0.005
0.000
1950
1960
1970
1980
1990
2000
2010
2020
Year

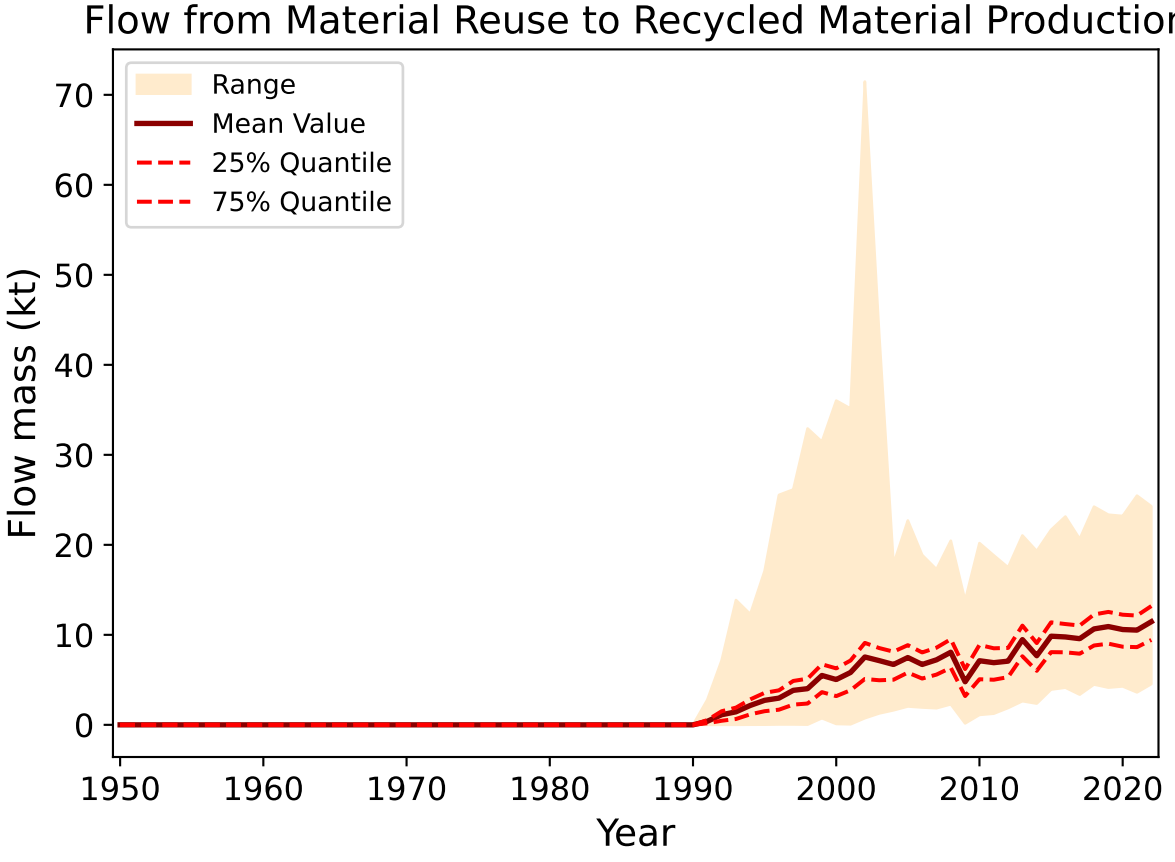

Flow from Outdoor air (micro) to Surface Water (micro)
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0200
0.0175
0.0150
0.0125
0.0100
0.0075
0.0050
0.0025
0.0000
1950
1960
1970
1980
1990
2000
2010
2020
Year

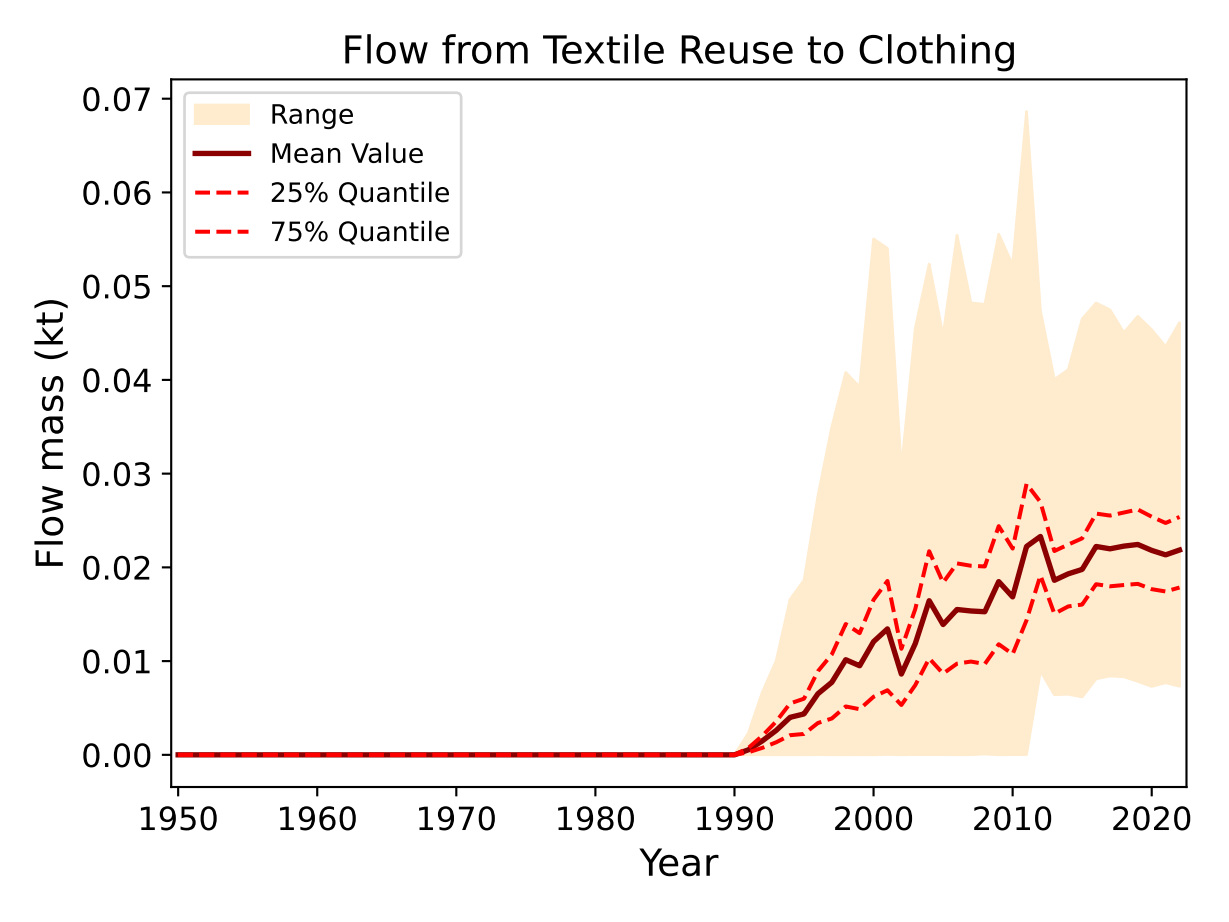

Flow from Outdoor air (micro) to Agricultural Soil (micro)
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.00
0.01
0.02
0.03
0.04
0.05
0.06
0.07
1950
1960
1970
1980
1990
2000
2010
2020
Year

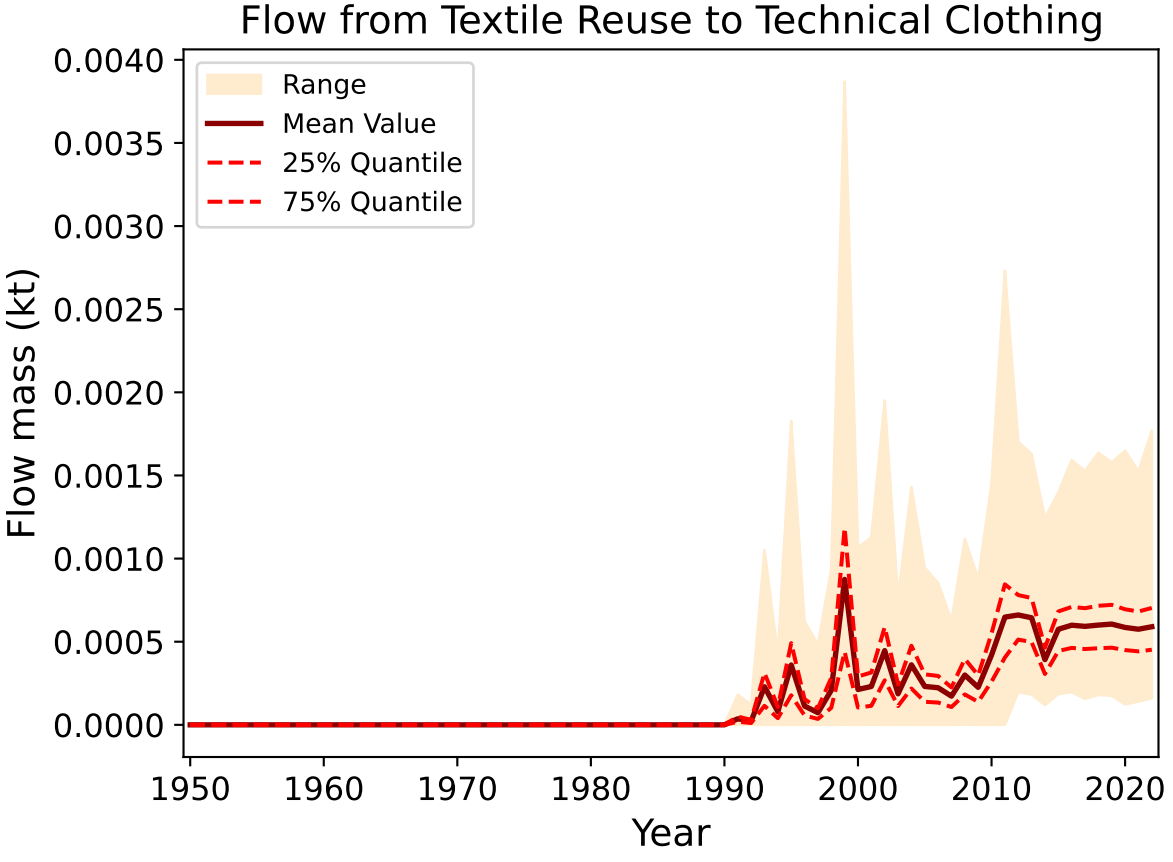

Flow from Outdoor air (micro) to Residential Soil (micro)
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.030
0.025
0.020
0.015
0.010
0.005
0.000
1950
1960
1970
1980
1990
2000
2010
2020
Year

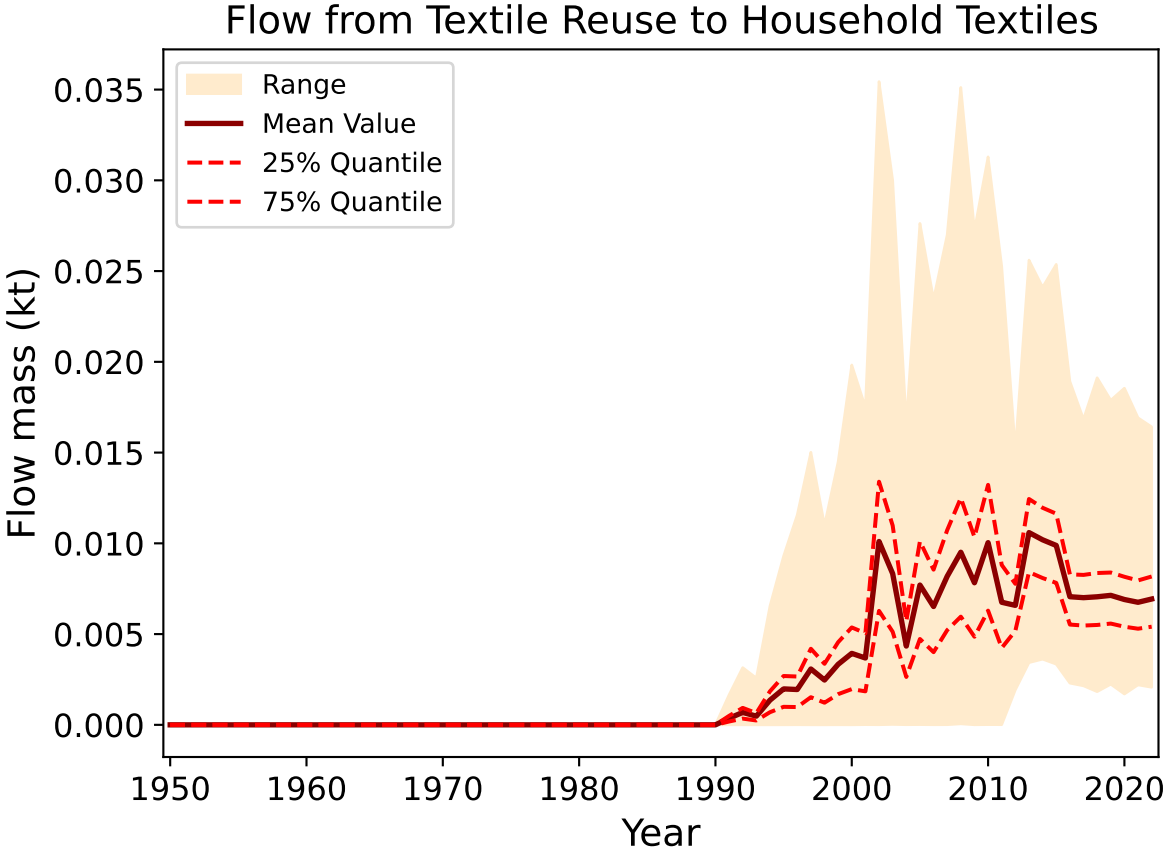

Flow from Outdoor air (micro) to Natural Soil (micro)
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.00
0.02
0.04
0.06
0.08
1950
1960
1970
1980
1990
2000
2010
2020
Year

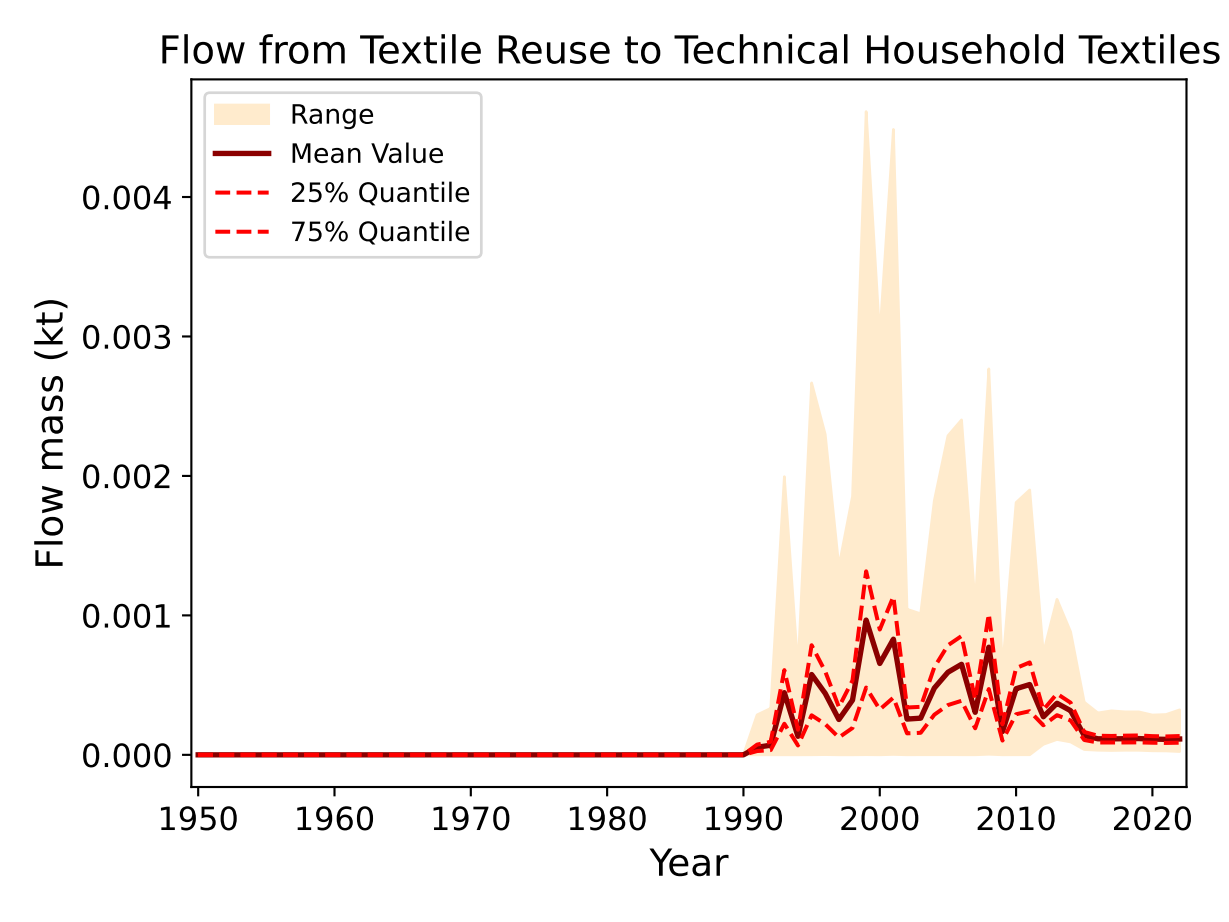

Flow from Material Reuse to Export
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
10
20
30
40
50
1950
1960
1970
1980
1990
2000
2010
2020
Year


Flow from Material Reuse to Recycled Material Production
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0
10
20
30
40
50
60
70
1950
1960
1970
1980
1990
2000
2010
2020
Year


Flow from Textile Reuse to Clothing
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0.00
1950
1960
1970
1980
1990
2000
2010
2020
Year


Flow from Textile Reuse to Technical Clothing
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.0040
0.0035
0.0030
0.0025
0.0020
0.0015
0.0010
0.0005
0.0000
1950
1960
1970
1980
1990
2000
2010
2020
Year


Flow from Textile Reuse to Household Textiles
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.035
0.030
0.025
0.020
0.015
0.010
0.005
0.000
1950
1960
1970
1980
1990
2000
2010
2020
Year


Flow from Textile Reuse to Technical Household Textiles
Range
Mean Value
25% Quantile
75% Quantile
Flow mass (kt)
0.000
0.001
0.002
0.003
0.004
1950
1960
1970
1980
1990
2000
2010
2020
Year