Statistical Eco(-toxico)logy

Improving the Utilisation of Data for Environmental Risk Assessment

Eduard Szöcs 5th January 2017

Statistical Eco(-toxico)logy

0.16-11-23

Statistical Eco(-toxico)logy Improving the Utilisation of Data for Environmental Risk Assessment

duard Szocs Sth January 2017



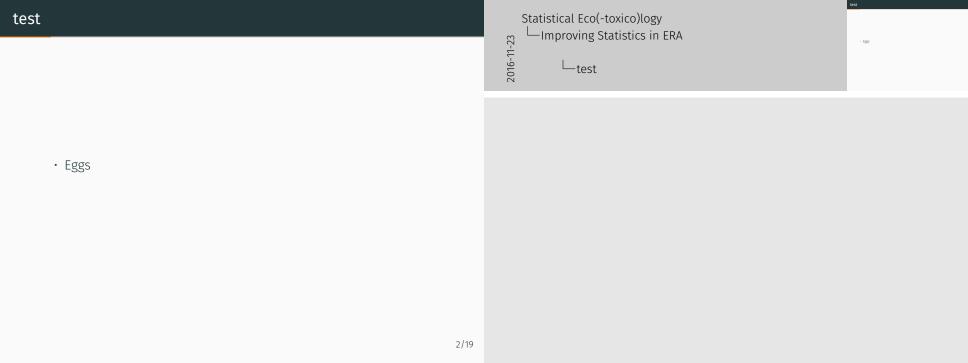
4. Solutions for Linking Data in ERA

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Environmental Risk Assessment (ERA)

Statistical Eco(-toxico)logy
Environmental Risk Assessment (ERA)

Environmental Risk Assessment (ERA) Improving Statistics in ERA



- Eggs Plants

1. Tell joke about plants.

└─test

2. Make it short.

- Eggs
- Plants
- Animal

- 1. foo
 - 2. bar

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- 3. baz 4. foobar

Ecotoxicology is not normal

A history of GLM (uncomprehensive)

Statistical Power is unacceptably low

5/19

Generalized Linear Models (GLM) can do better



Statistical Eco(-toxico)logy

End Improving Statistics in ERA

Where are we now?

Where are we now?

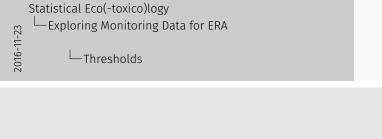
Statistical Eco(-toxico)logy

-Exploring Monitoring Data for ERA

Exploring Monitoring Data for ERA



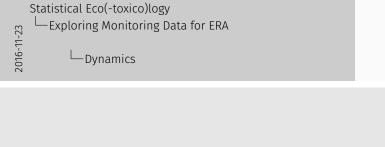




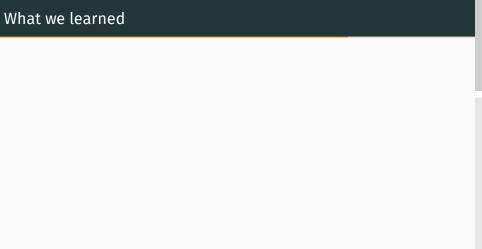
Statistics with chemical measurements

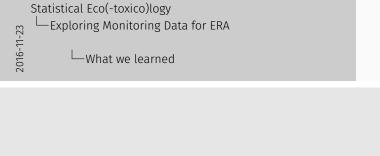
11/19











What we learned

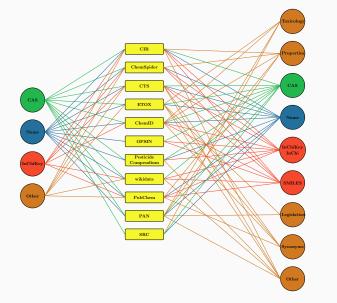
Solutions for Linking Data in ERA

Biologists & Chemists face the same problems

Instead of wasting time...

16/19

webchem



Statistical Eco(-toxico)logy
Solutions for Linking Data in ERA
webchem



Instead of wasting time...

Statistical Eco(-toxico)logy LRecap

Recap

Recap

What we learned

Improving Statistics in ERA

Block content.

Exploring Monitoring Data for ERA

Block content.

Solutions for Linking Data in ERA

Use my R packages to save your time!

Statistical Ecotoxicology

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Eduard Szöcs

□ http://edild.github.io/

@EduardSzoecs

https://github.com/edild/phd_defense



16-11-23

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