

# Summing Up

Liz (CU) – setting the scene, the role for Citizen Science, filling the temporal sampling gap and the spatial sampling gap, but not regulatory sampling, accessibility of data: Wye Collaborative Monitoring Network

Michelle (Rivers trust) – “How can we generate action through Citizen Science?” “Mind the Evidence Gap” Pettival Cumbria project, “£300k funding delivers £20M delivery efficiencies” Exempla of approach, Catchment Monitoring Cooperative.

Stuart (WSA) – 5 year project monitoring T, survey of technologies, embracing Epicollect5 instead of “quill and papyrus”. Passion to have data used.

Tom (FOUW) – Demonstrates what can be achieved in a short time through passion and engagement of Citizen Scientists. Started the issue of FUNDING

Christine and Phil (FOL) – Continued the theme of FUNDING, comparable data with FOUW, Training, problems of technology, e.g. engaging with Epicollect5

Andrew (CPRE) – Issues of lack of data, linked with FUNDING, Protect for Future Generations. People want to be a part; Rod (CPRE) Importance of hydrology in understanding data.

Elle (CU) – amazing achievement of collaboration – 267 survey sites, 4000 samples, comparable data, shared parameters, monitoring kit, spatial data trends, quality checking data compared to lab  $R^2 = 0.64$  Hanna Phosphate checker.

Panel – Filling the data and knowledge gap versus issue of funding. Collect more data, coordination, sourcing FUNDING, Sustainability of funding. How to use the data, timescale of its use, short term solutions of identified issues, long term building of resilient river system.

The overall? Everyone is working on the same page, genuine passion and desire for a common goal. Common appreciation of the value of citizen science. The challenge most commonly accepted – Funding, not the value of the data. Genuine desire for coordinated approach.

**Overview? OPTIMISM!**



## Breakout session 1

**Funding**, project coordination, data analysis, different spatial scales including community level, Common understanding of what's needed **collaborative** approach and knowledge exchange. EA quarterly report and **development of plan** for using citizen science, 2<sup>nd</sup> quarterly report to include data, **Funding** – combined approach of corporate sponsors.

**Data is being used**, how can it be used more in future. Issue of **data availability**, access is challenging for agencies, multiple data sources – satellite data, continuous data, source pathway receptor models, some data already used in water plans, data has been used to effect change, **volunteering is part of effecting change**, need to **show volunteers that data is being used** – motivation. How do we develop actions.

**Funding**, lack of it! Ending of groups due to lack of **funding**, public education and outreach, disseminate to wider group of people, coordination across the border, data collecting etc. difficulties of cross-border catchments, more guidance on data use. **Who/how analysed?** Building action into the future – how? **Data user perspective** – better understanding of data collected, what it shows and how to better make available, standardised reporting for agency use, what can data from different methods be used for, Epicollect useful but what else is available? Expand monitoring into less populated areas. Event monitoring.

## Breakout question 2

1. Umbrella cooperative, cross border, coordinated by WUF?
2. Collective application for funding
3. Two-way communication with regulatory bodies
4. Funding from Govt level
5. Data – analysis - interpretation – action – by whom?
  
6. Communication hub
7. Shared organisational chart
8. Shared understanding, who is sampling where, what and when
9. More mass sampling dates
10. Exploring wider role of citizen science groups
  
11. Involve all stakeholders in network
12. Closing the feedback loop to motivate volunteers – actions based on CS data
13. Ecological monitoring
14. Data sharing platform remains accessible, next stage?
15. Funding efforts coordinated.
  
16. Where should efforts be focussed, research questions
17. Assessing data and refining monitoring
18. Equipment fit for purpose – what should it be?
19. Potential redistribution of resources to target priority areas
20. Making links with local landowners / managers to recruit as CS