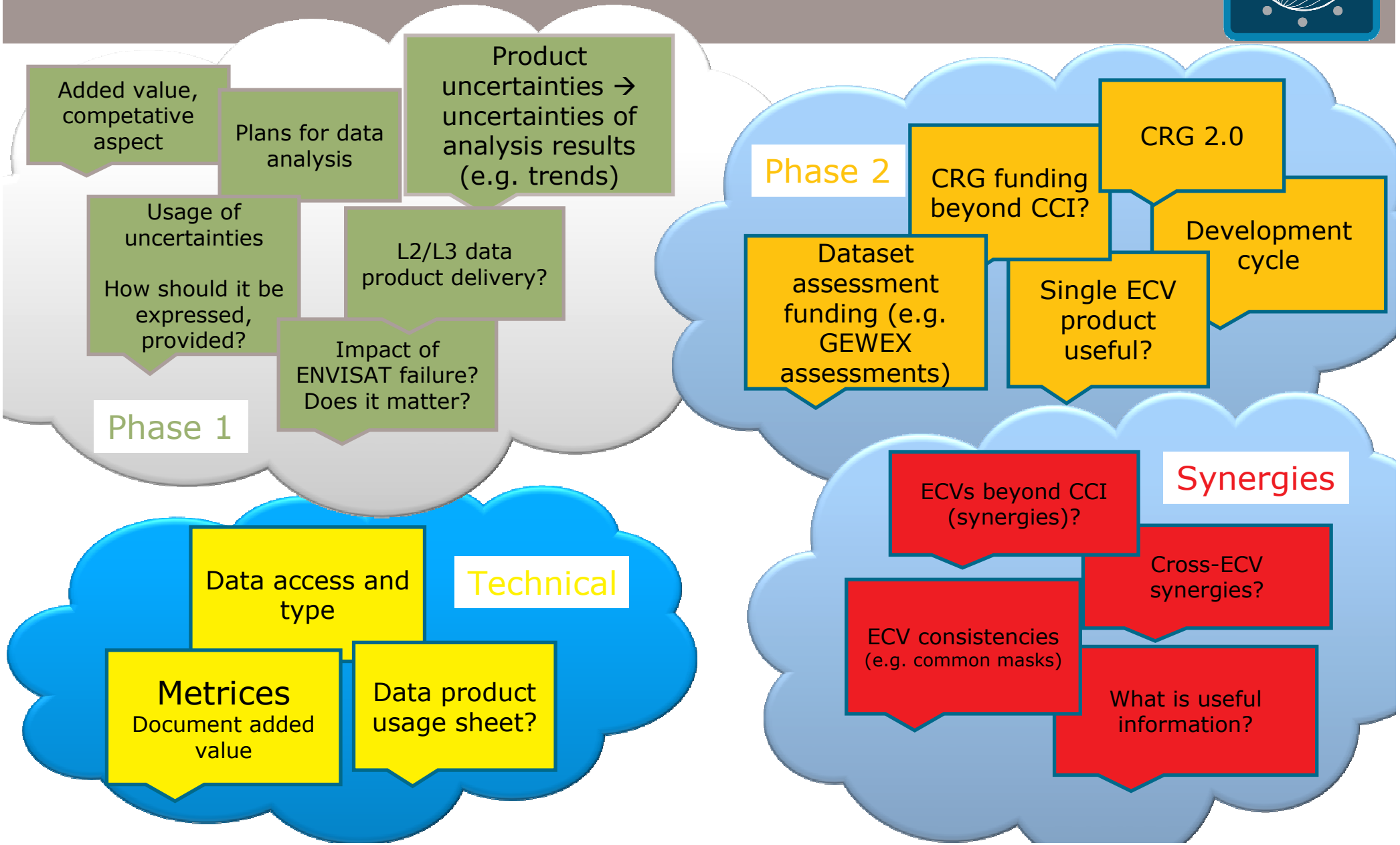
Splinter Group B

CRG

Topics covered



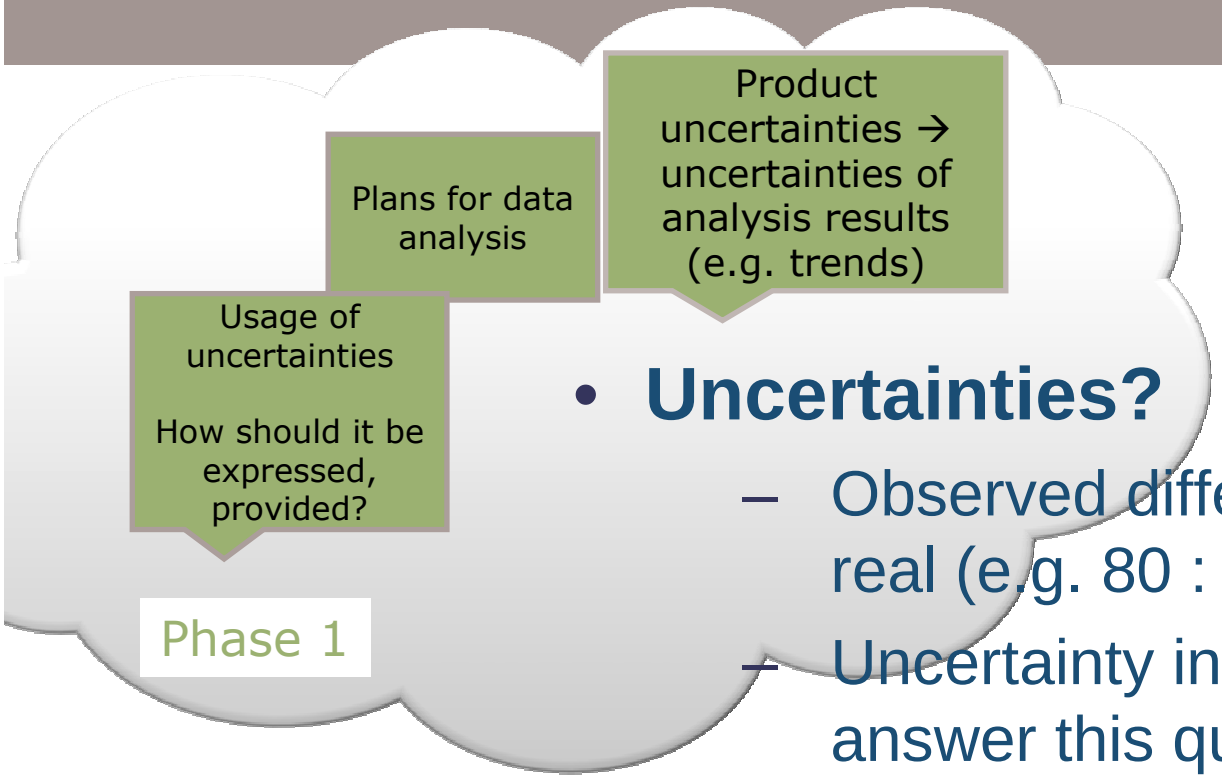
CCI 1.0

Phase 1

Plans for data analysis

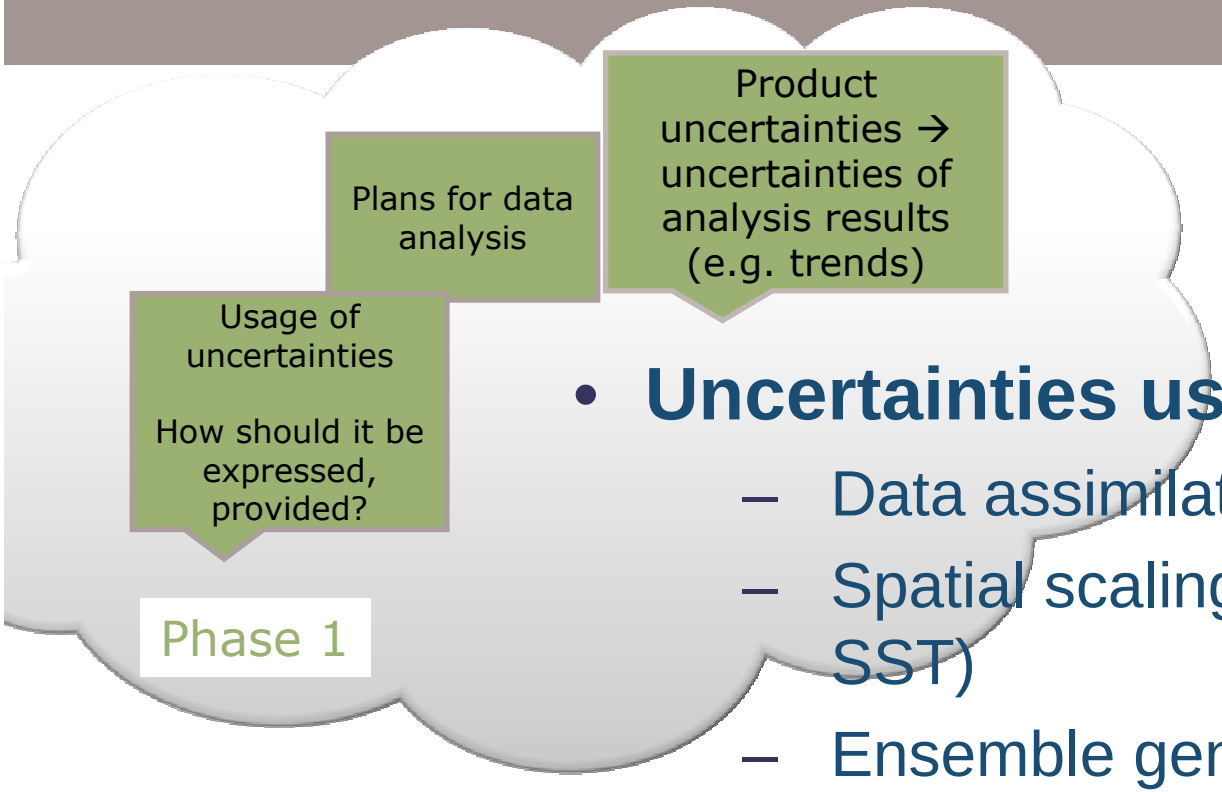
- **Planned usage within CRG?**
  - Model confrontation … data assimilation
  - Global … very detailed studies envisaged
  - CRG seem to be ready to work by tomorrow
- **Value of CCI data sets needs to be demonstrated for engagement of larger community**
  - Some projects perform benchmarking with independent data (other variables, in situ)

CCI 1.0



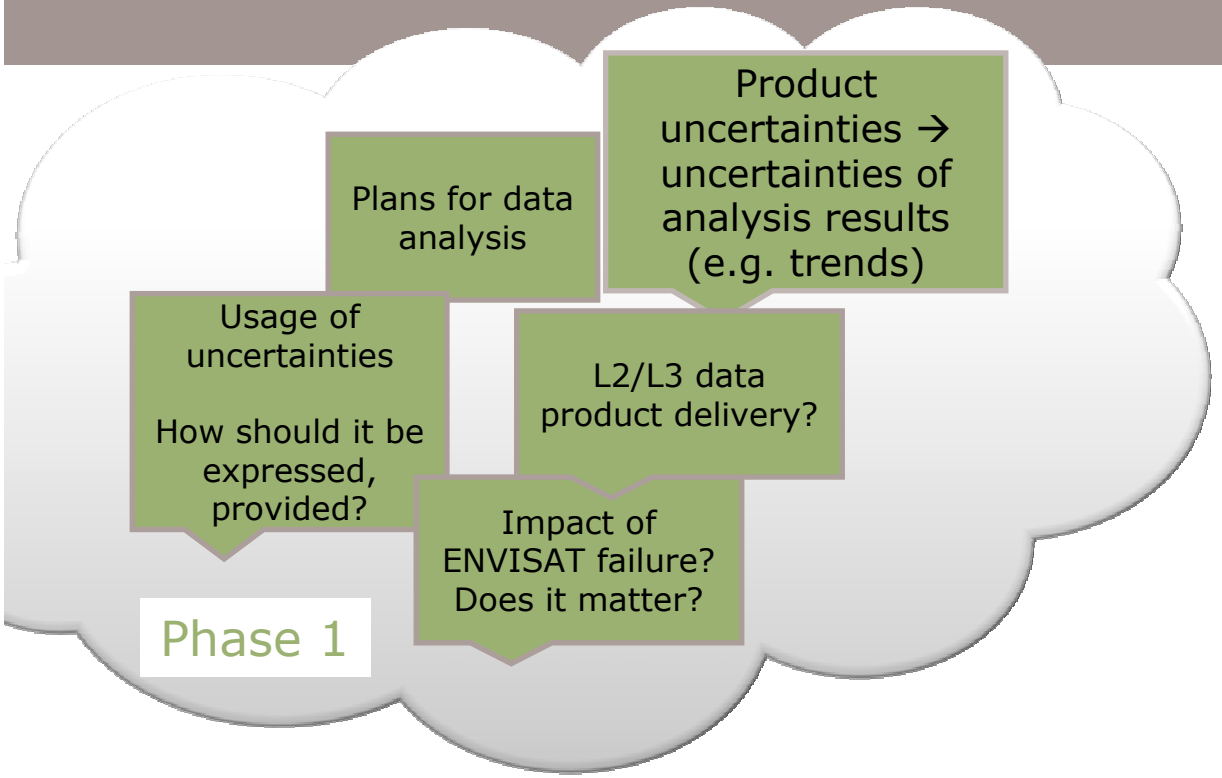
- **Uncertainties?**
  - Observed differences (e.g. model, data) real (e.g. 80 : 100)?
  - Uncertainty information needs to help to answer this question
  - Random noise + bias + stability
  - ➔ (spatial, temporal) bias information as **part of the product**
  - Or even correct for bias already in product

CCI 1.0



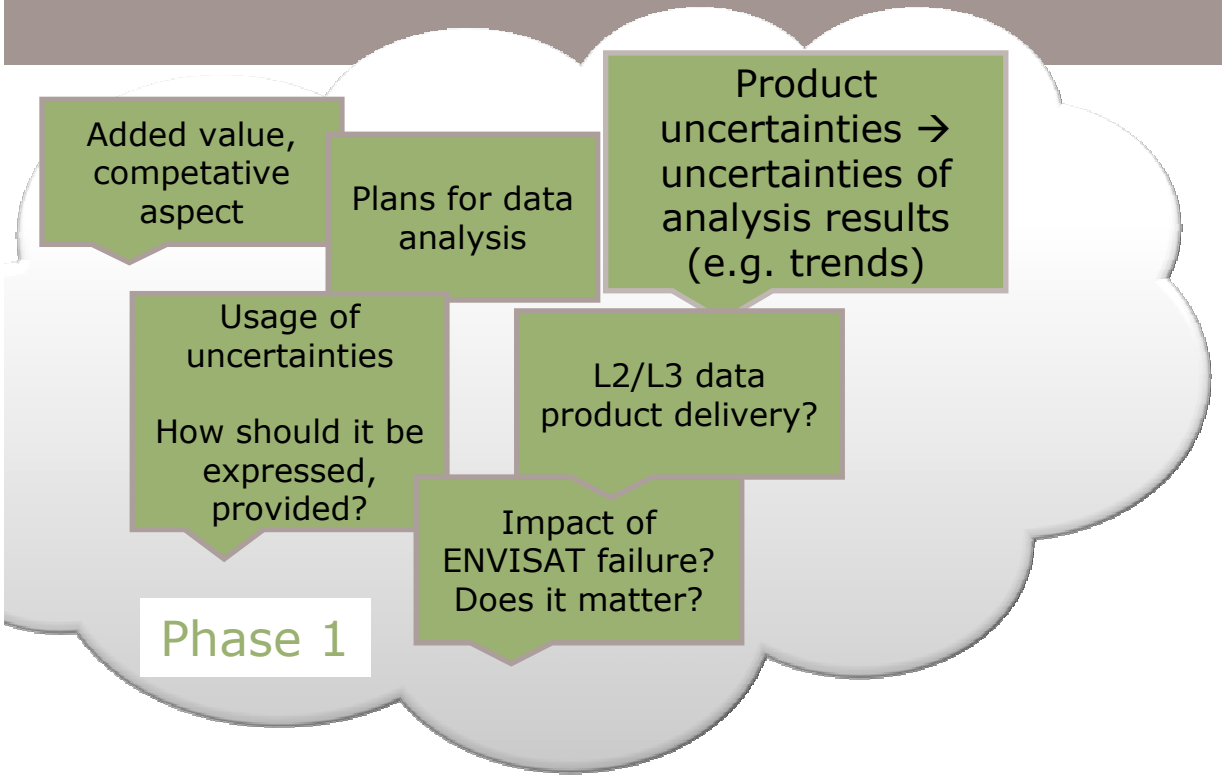
- **Uncertainties usage**
  - Data assimilation
  - Spatial scaling (covariance of error; e.g. SST)
  - Ensemble generation of e.g. models
  - Simple comparison: weighting of differences; model improvement

CCI 1.0



- **L2/L3 needed? yes, and perhaps even L4 (e.g. outreach; trends)**
- **ENVISAT failure as a problem for applications?**
  - No clear picture; YES for SST
  - Concerns about impact on longterm analysis; general: data rich vs. data poor periods. → should be reflected in overall uncertainties

CCI 1.0


Added value, competative aspect
Plans for data analysis
Product uncertainties → uncertainties of analysis results (e.g. trends)
Usage of uncertainties
How should it be expressed, provided?
L2/L3 data product delivery?
Impact of ENVISAT failure? Does it matter?
Phase 1

Added value: user perspective

CRG answers …

Mr. SSH: „best dataset with climate signal (trend)“

Mr. Aerosol: „first longterm persp.; Polder highest inf. content “

Mr. GHG: „unique longterm record incl. bias correction “

Mrs. SST: „Darling I have you soooo much to tell …“

[unique

Mr. Clouds: „first longterm L1 multisensor record; optimal estimation approach“

Mr. Ocean color: „only dataset with uncertainties“

Mr. Ozone: „cont. longterm global vertical rec. for fluctuations & trends“

Mr. Sea ice: „unique record of longterm sea ice thickness “

Mr. LC: „most detailed high res. LC + LC conditions “

Mr. IceSheet: „longterm consistent records; complementary velocity maps“

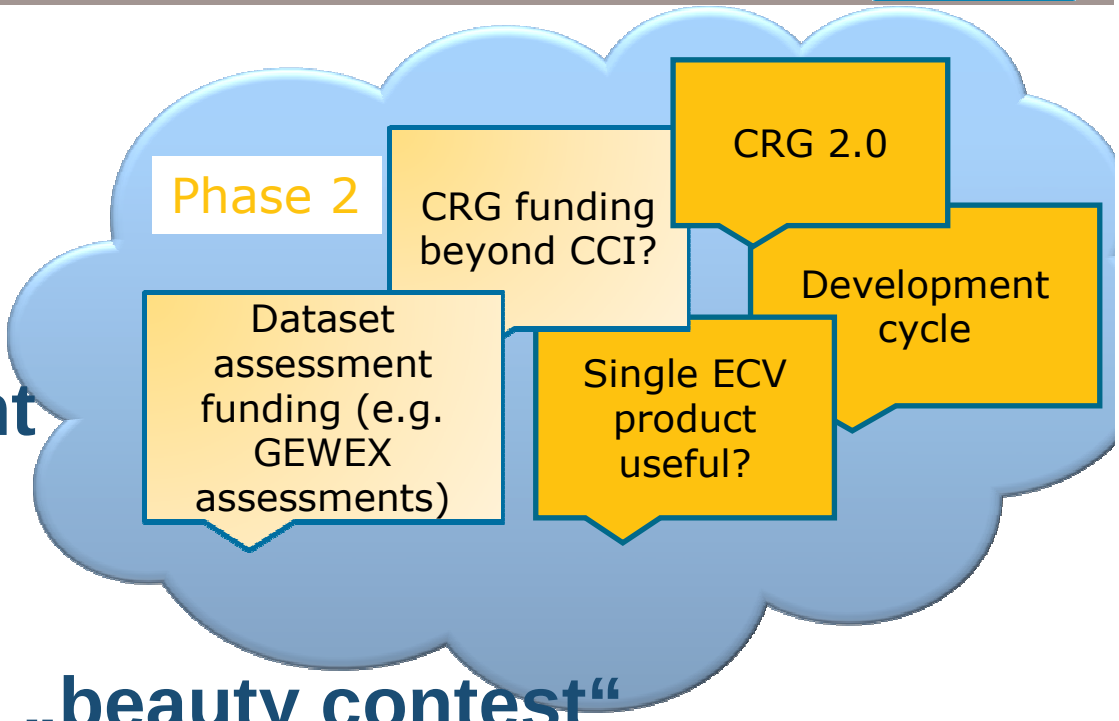
Mr. Fire: „unique merged data product from 3 different sensors“

Mrs. SM: „only global 30+ record with well charac. uncertainties“

Mr. Glacier: „first ever comprehensive glacier inventory“

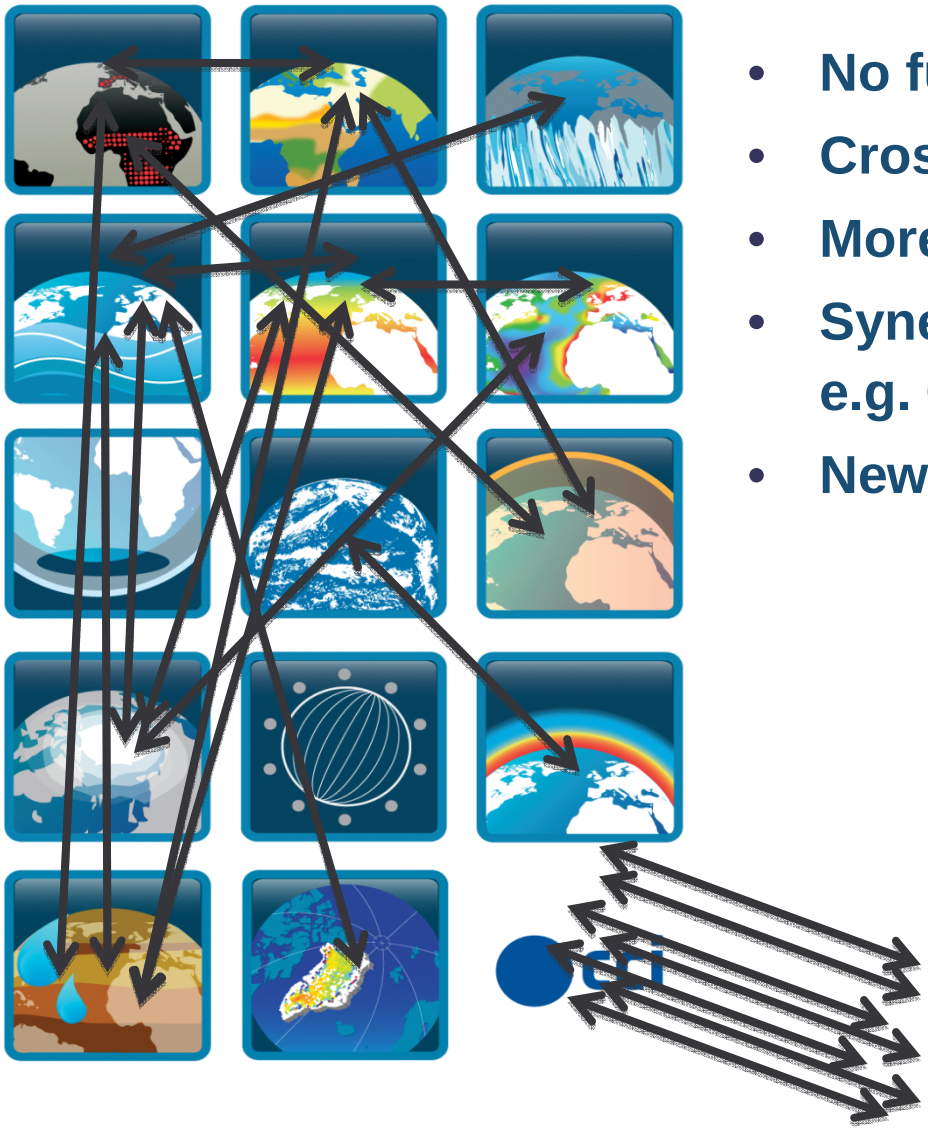
CCI 2.0

- **Widening user perspective (e.g. mitigation)**
- **Strong user involvement essential**

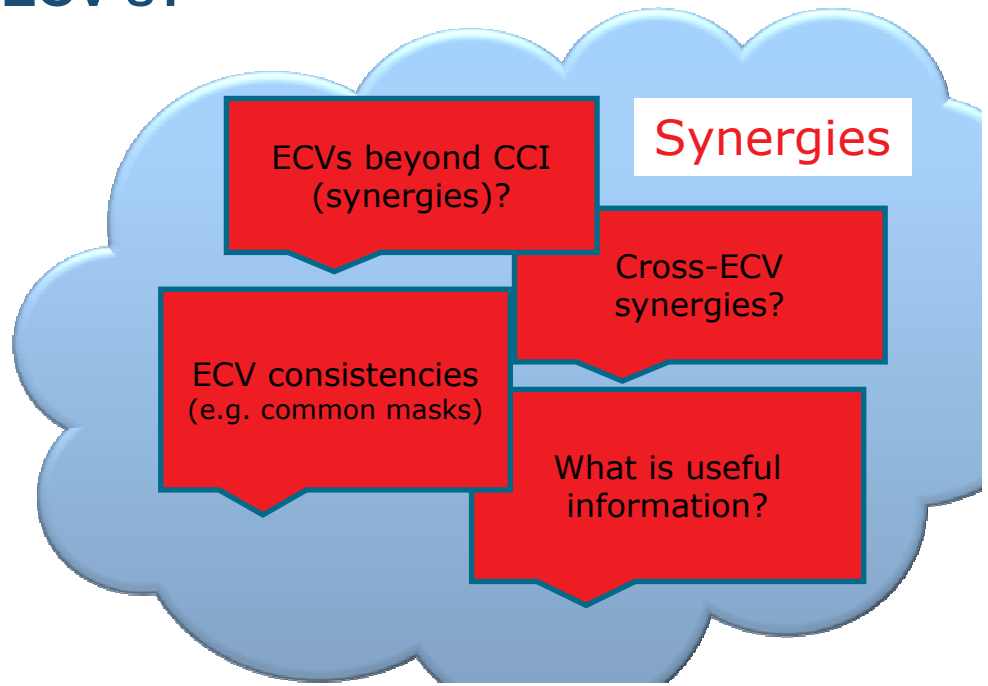


- **Single ECV product vs. „beauty contest“**
  - Not feasable
  - **Diversity essential**
  - Similar to ESM development (1 world but multiple realizations of it)

Cross ECV perspectives

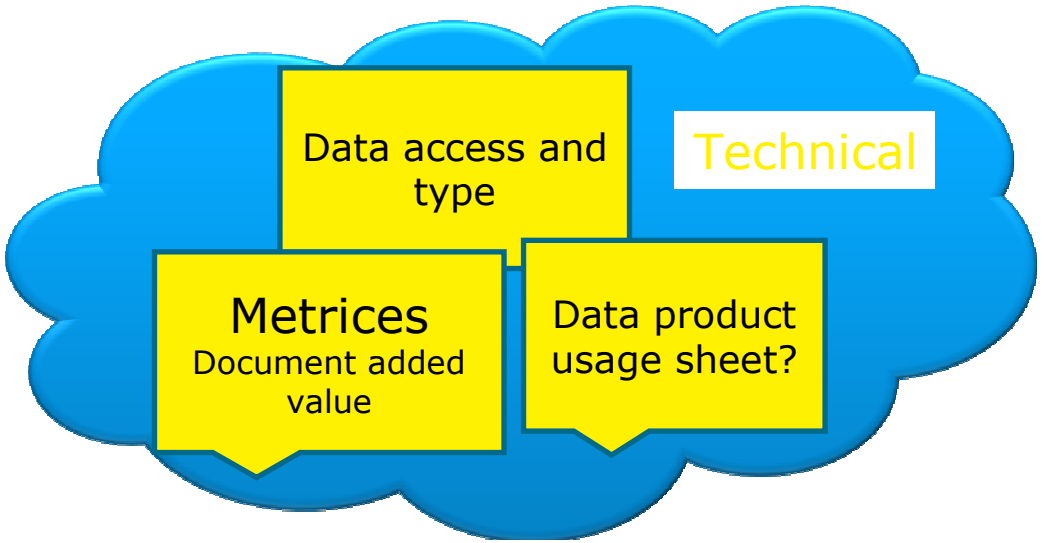


- No full survey
- Cross ECV analysis for some ECV‘s
- More crosscutting work in phase 2
- Synergies with other projects (not CCI; e.g. Geoland2, Glob projects …)
- New ECV‘s?



Technical aspects

- **Data provision phase 1**
  - No single data access point envisaged yet (project basis) as a fact. Critical for outreach?
  - ESG as one data access point (projects free to initiate contact with NASA JPL → will this happen?)
  - Data product sheet as suggested by obs4mips considered to be very useful



Expected preliminary data delivery (session 2)

ECV	Q2/2012	Q3/2012	Q4/2012	Q1/2013	Q2/2013
Landcover		Sep.			
Fire	Aug				
Soil moisture	June				
Ice sheet					
Glaciers	Feb				
SST				Feb	
SSH		Sep			
Ocean color		Sep			
Sea ice					
Aerosols		Oct			
Clouds		Sep			
GHG				March	
Ozone		Nov			