

Research for Change

CGIAR Research Program on Water, Land and Ecosystems

Greater Mekong Program

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Research-for-development

The process of **sharing evidence-based knowledge** between its ‘producers’ and ‘users’ who employ it to yield positive development change.

We judge R4D successes in terms of **behavioural changes**.



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The nature of 'sustainability'

**OUR
COMMON
FUTURE**

THE WORLD COMMISSION

ON ENVIRONMENT

AND DEVELOPMENT

“Development that meets the needs of the present without compromising the ability of future generations to meet their own needs.”

“The yield of science is
explanation.
Richard Feynman”



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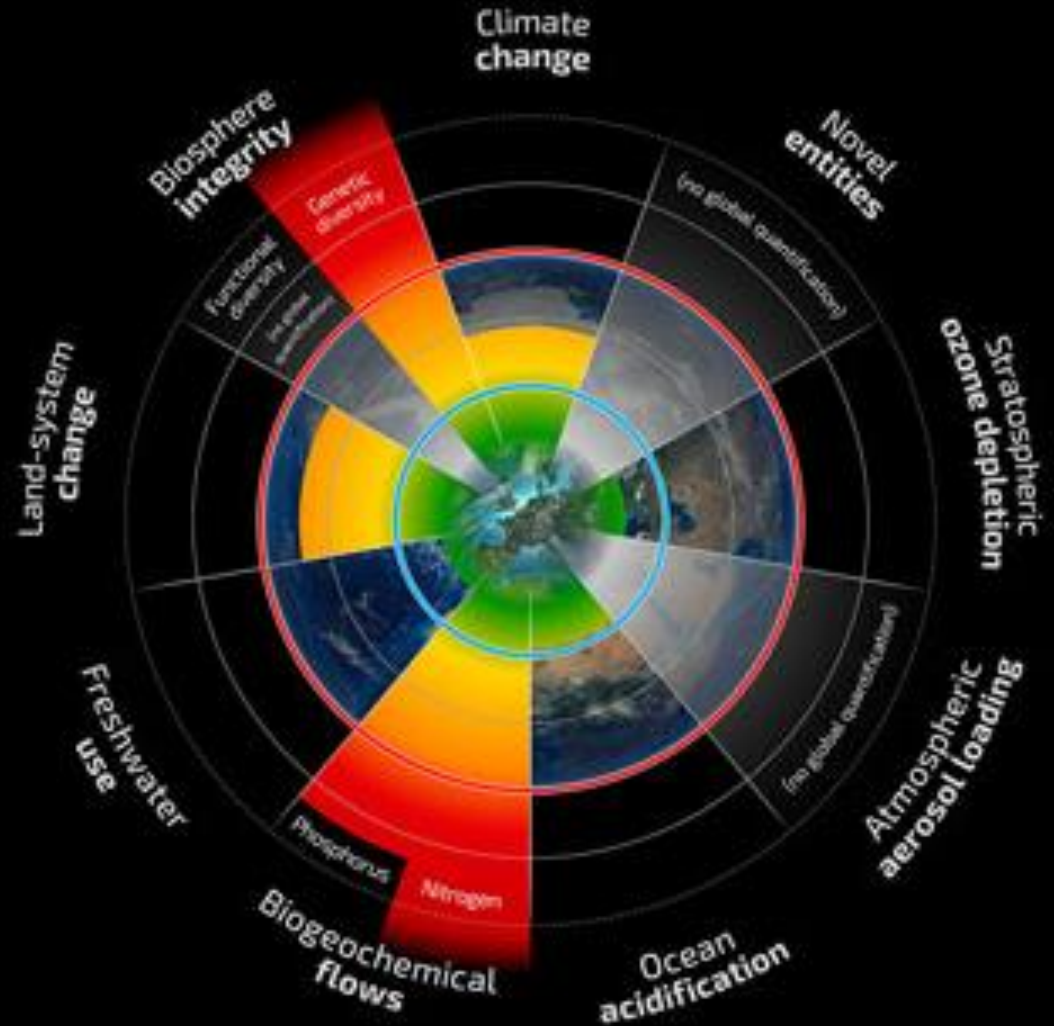


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Biophysical bias

“ The capacity of a system to experience shocks while retaining essentially the same function, structure, feedbacks, and therefore identity





Society science

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- Systems science (and innovation systems)
 - Human organisation
 - Psychology (and behavioural change)
 - New institutional economics
 - Livelihoods change and migration



Communications breakdown

Scientists...



$$\begin{aligned} D\theta / Dt &= (\rho c_p T)^{-1} \theta (\nabla \cdot \kappa_T \nabla T + Q) \\ \rho &= \rho(p, \theta, S) \\ Du / Dt + 2\Omega \times u &= -\rho^{-1} \nabla p - g + \nu \nabla^2 u \\ DS / Dt &= \rho^{-1} \nabla \cdot \rho \kappa_S \nabla S \\ D\theta / Dt &= (\rho c_p T)^{-1} \theta (\nabla \cdot \kappa_T \nabla T + Q) \\ f(x) &= \frac{1}{\sqrt{2\pi\sigma^2}} e^{-\frac{(x-\mu)^2}{2\sigma^2}} \end{aligned}$$

Ignorant Target groups...

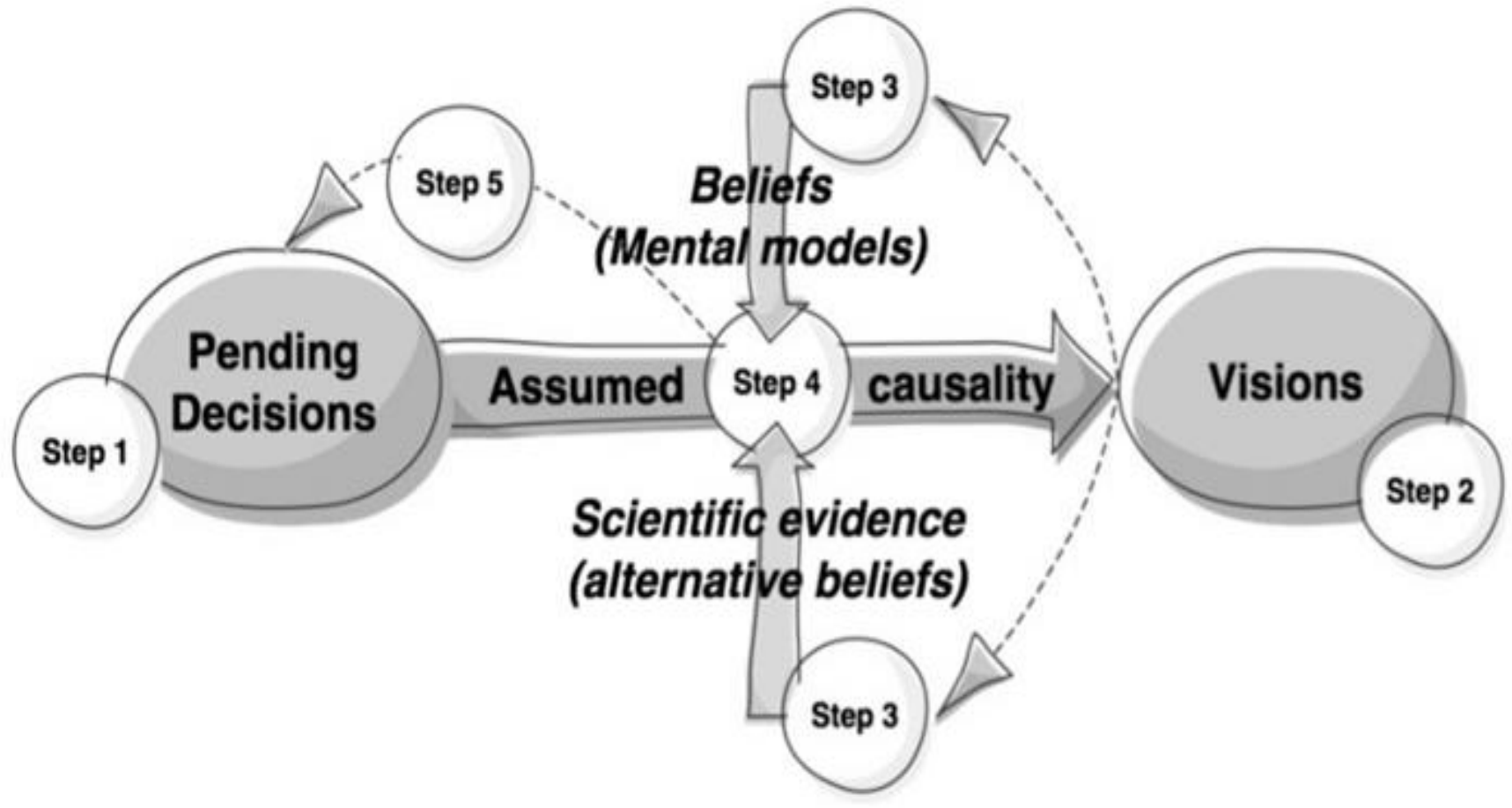


...possess all expert knowledge and scientific wisdom

... will gladly change their attitudes and behaviour accordingly



Own the process



(Smajgl and Ward, 2013)



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<https://wle-mekong.cgiar.org>



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