Research for Change

CGIAR Research Program on Water, Land and Ecosystems

Greater Mekong Program

Dr Kim Geheb, Regional Coordinator
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.
The nature of ‘sustainability’

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

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

Scientists...

\[ \begin{align*}
\frac{\partial \Theta}{\partial t} &= \left( \rho \kappa_T \right)^{-1} \Theta (\nabla \cdot \kappa_T \nabla T + Q) \\
\frac{\partial \mu}{\partial t} &= \rho (\rho, \theta, s) \\
\frac{\partial u}{\partial t} + 2 \Omega \times u &= -\rho^{-1} \nabla p - g + \nu \nabla^2 u \\
\frac{\partial S}{\partial t} &= \rho^{-1} \nabla \cdot (\rho \kappa_s \nabla S) \\
\frac{\partial \rho}{\partial t} &= \rho (\rho, \theta, s) \\
\rho &= \left( \rho \kappa_T \right)^{-1} \\
f(x) &= \frac{1}{\sqrt{2\pi\sigma^2}} e^{-\frac{(x-\mu)^2}{2\sigma^2}}
\end{align*} \]

...possess all expert knowledge and scientific wisdom

Ignorant Target groups...

...will gladly change their attitudes and behaviour accordingly
Own the process

( Smajgl and Ward, 2013)
https://wle-mekong.cgiar.org