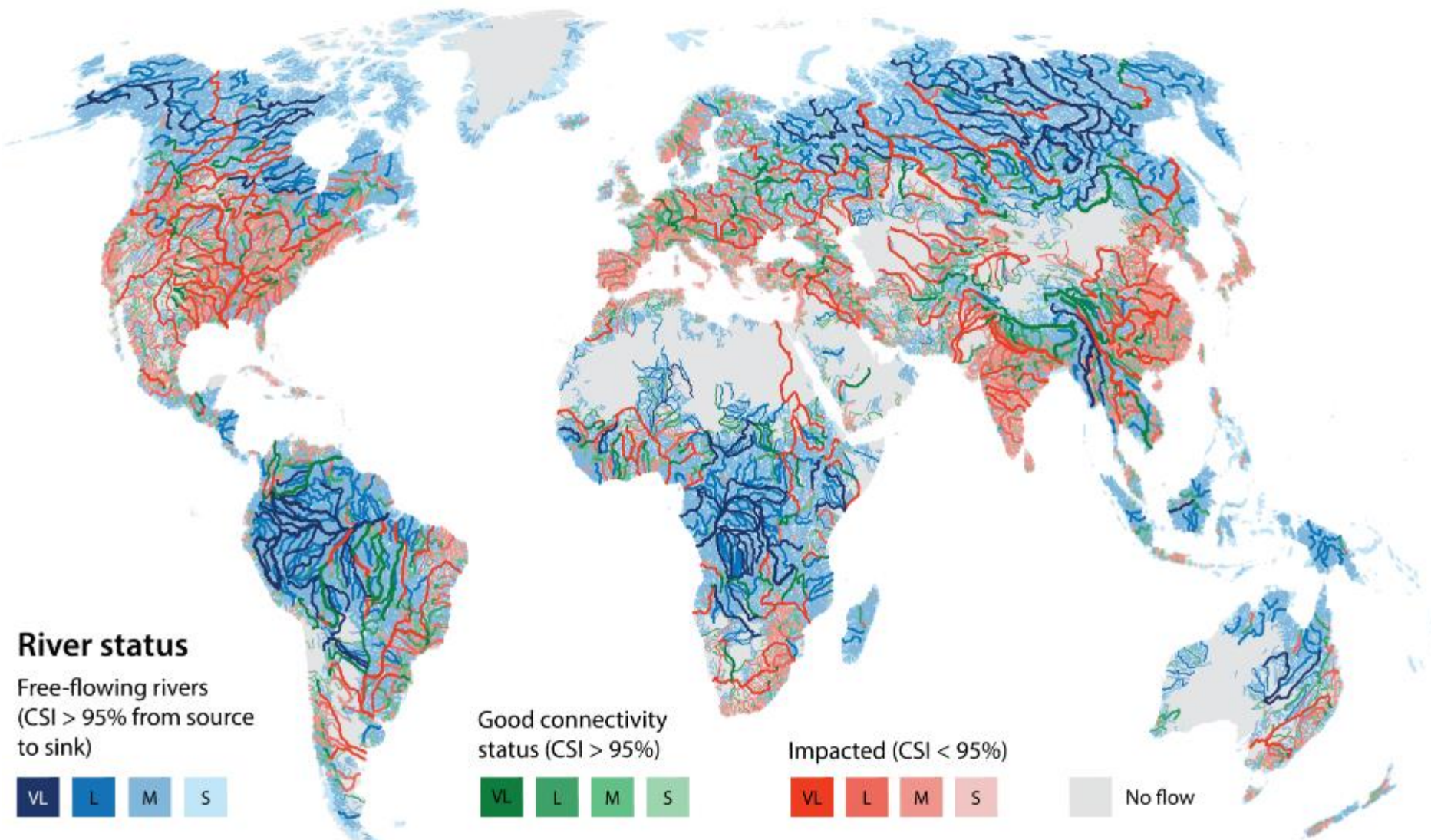




- Provide multiple benefits to people and nature:
 - Sediment delivery to floodplains & deltas
 - Habitat & connectivity for freshwater species
 - Recreational, cultural, & aesthetic values



Vision: a world where the most critical free-flowing rivers are valued and protected for the enduring benefit of people, wildlife, and nature



River status

Free-flowing rivers
(CSI > 95% from source to sink)



VL: Very long river (> 1000 km)

Good connectivity
status (CSI > 95%)



L: Long river (500 - 1000 km)

Impacted (CSI < 95%)

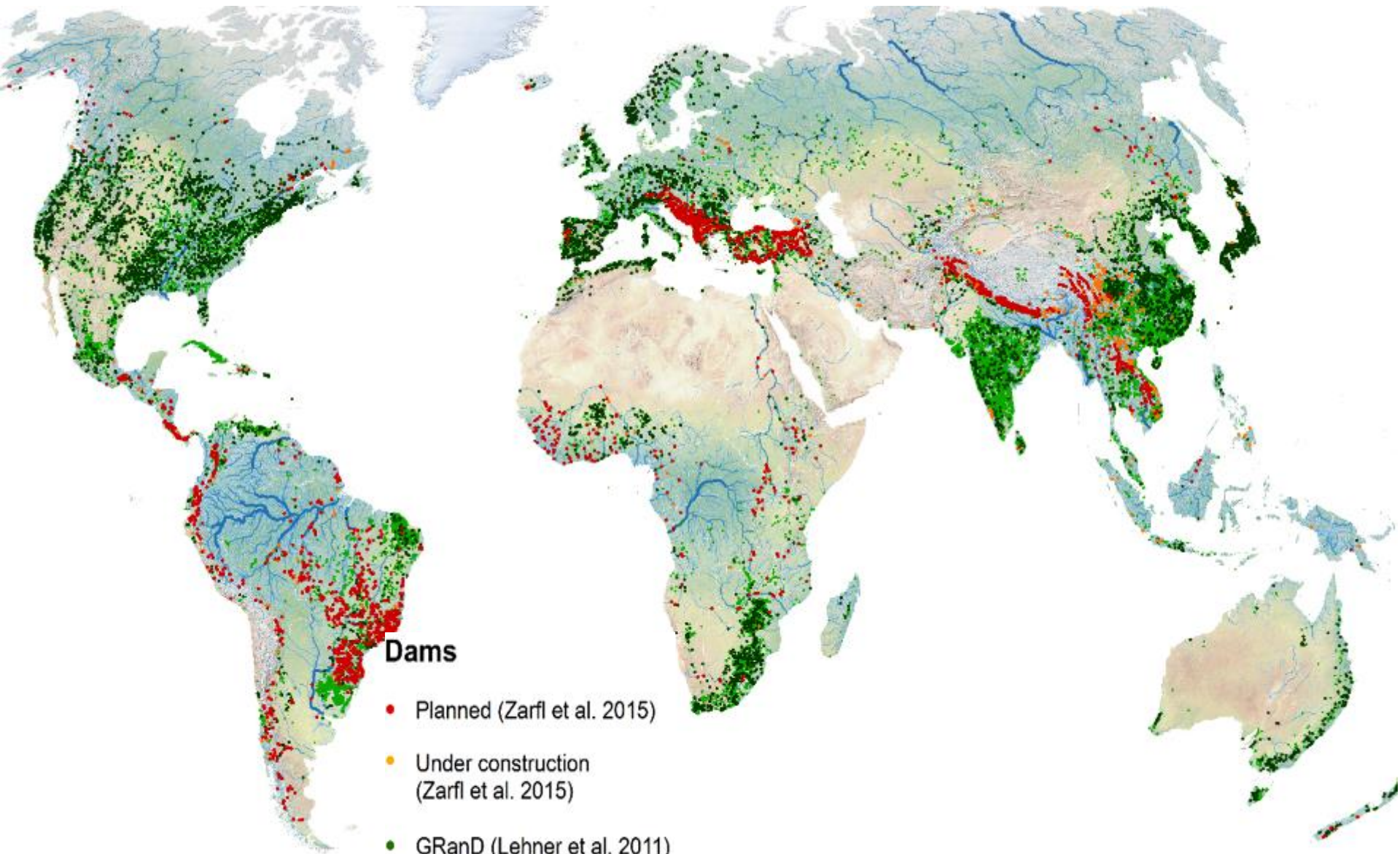


M: Medium river (100 - 500 km)



No flow

S: Short river (10 - 100 km)



Dams

- Planned (Zarfl et al. 2015)
- Under construction (Zarfl et al. 2015)
- GRand (Lehner et al. 2011)
- Medium sized dams (Sáenz & Mulligan, 2013)

Actor	Role
Economic, energy & development planning agencies	<ul style="list-style-type: none"> • Incorporate data, goals or policies for conserving/restoring ecosystem services and biodiversity linked to rivers into development planning processes. • Evaluate Alternative energy options
Water Resource Managers/River Basin Planners	<ul style="list-style-type: none"> • Use maps of critical rivers to guide infrastructure development and removal and identify candidates for 'no-go' zones and protected areas
Environmental and National protected area Authorities	<ul style="list-style-type: none"> • Preferential selection of high conservation value networks of free-flowing rivers in proposing new or updating protected area designations
Public and Private Financial Institutions	<ul style="list-style-type: none"> • Use maps of critical rivers and associated services for guiding investments • Consider delays and cancellations in risk assessment
Hydropower Developers & Engineering Firms	<ul style="list-style-type: none"> • Avoid projects on high conservation value free-flowing rivers • Lead on planning and technical innovations that limit impacts of dams and infrastructure on river connectivity.
Civil Society	<ul style="list-style-type: none"> • Advocate with government, investors and developers to account for river connectivity • Advocate for other alternative energy sources
Academia	<ul style="list-style-type: none"> • Education of the next generation of engineers, financiers, government officials. • Advance trade-off decision science • Technological advancements that reduce environmental and social impacts of infrastructure

