



Green Roads for Water Training in Sudan

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Challenges & Way Forward

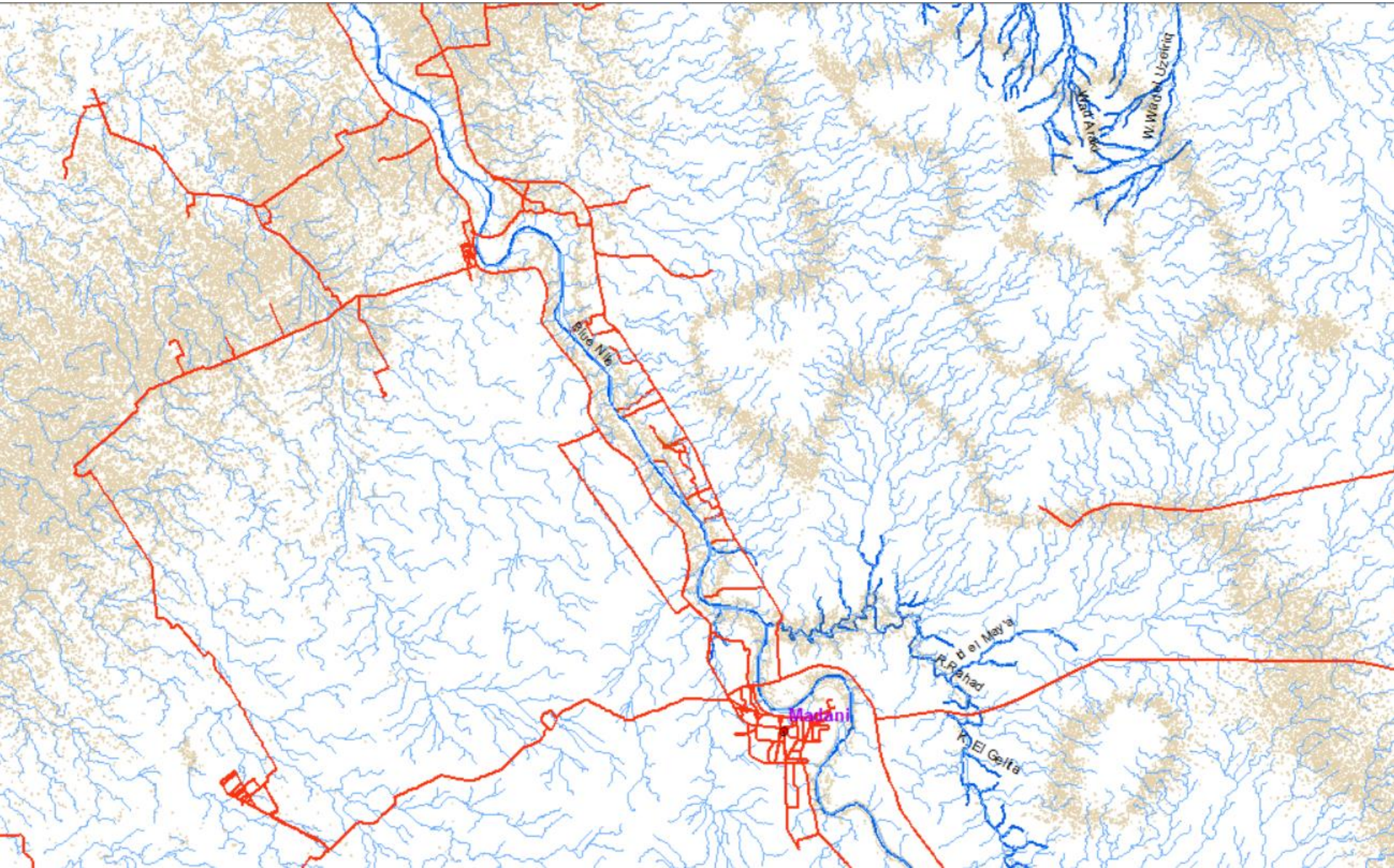


Existing Situation and Challenges

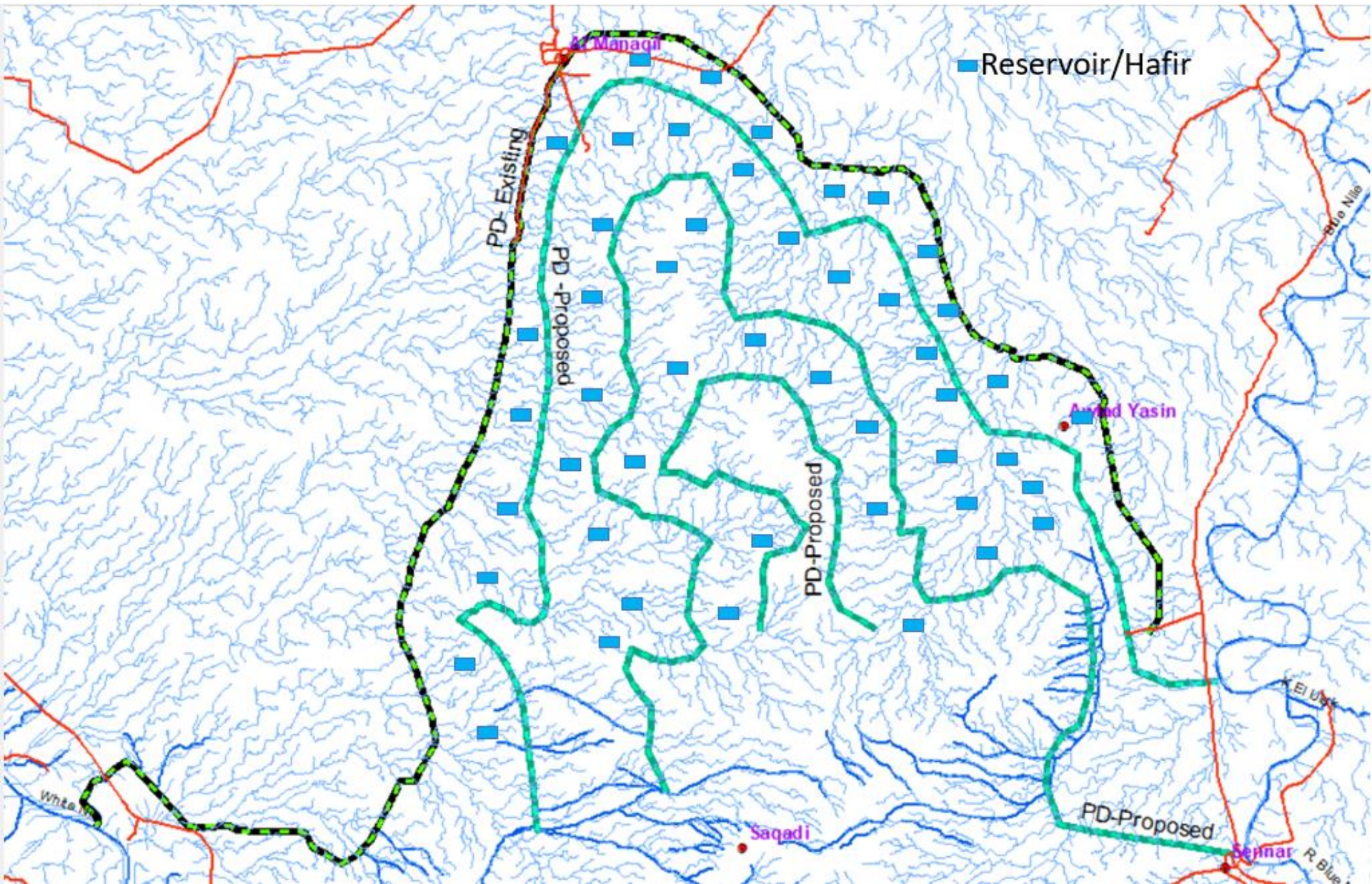
- Poor Coordination among sectors
- Communal and political interference (roads alignment ...)
- Poor/lack of periodic maintenance (limited fund)
- Side drainage not well addressed (type, size ...)
- lack of holistic thinking (at least at national level)
- Water proof not well addressed
- land tenure problems (e.g. Roads, canal buffer zones)
- Huge damage in infrastructure
- Climate change
- Sedimentation and outlet Blockage and roads & Railway cut
- Is there any considerations to geo-environmental factors?



Roads built perpendicular to flow paths without sufficient passages affect hydrologic connectivity and the ecosystem



Additional protective drains and building water harvesting structures help to reduce flood hazards and avail water to the need people



Strategy Main Pillars

P1: Legislations, Policies & Governance (Approval, endorsement, responsibilities, land tenure ...)

P2: Financial sustainability (Cost/benefit) mechanism – partnership ...

P3: ...

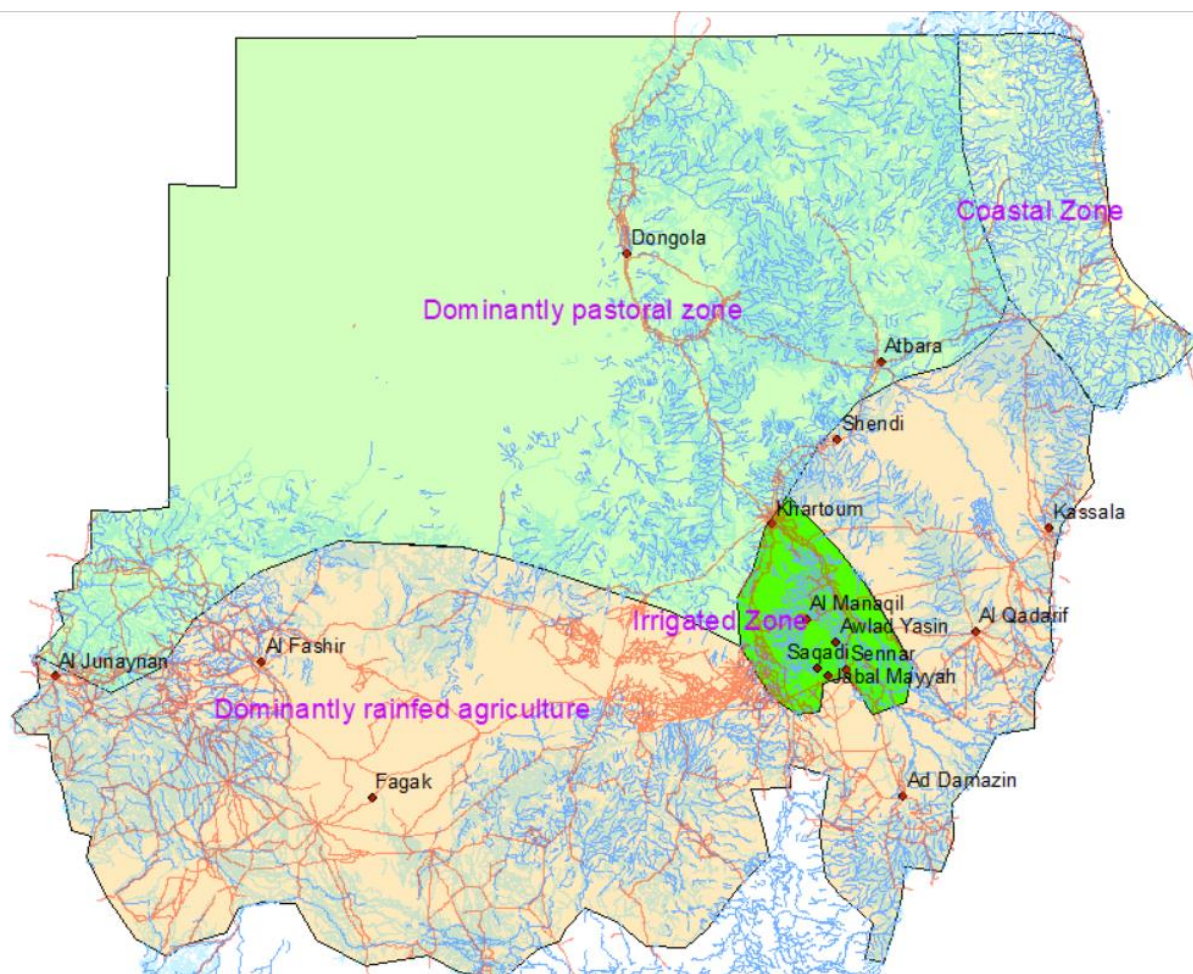
Steps forward

- Establishment of cooperation mechanism (Platform, Unit, Committee ... etc.)
- Updating the Sudan Zonation Map
- Development of Guidelines & Manuals
- From concept to Implementation: Awareness & training through **Piloting cases including WH intervention, side drains ...**
- ...

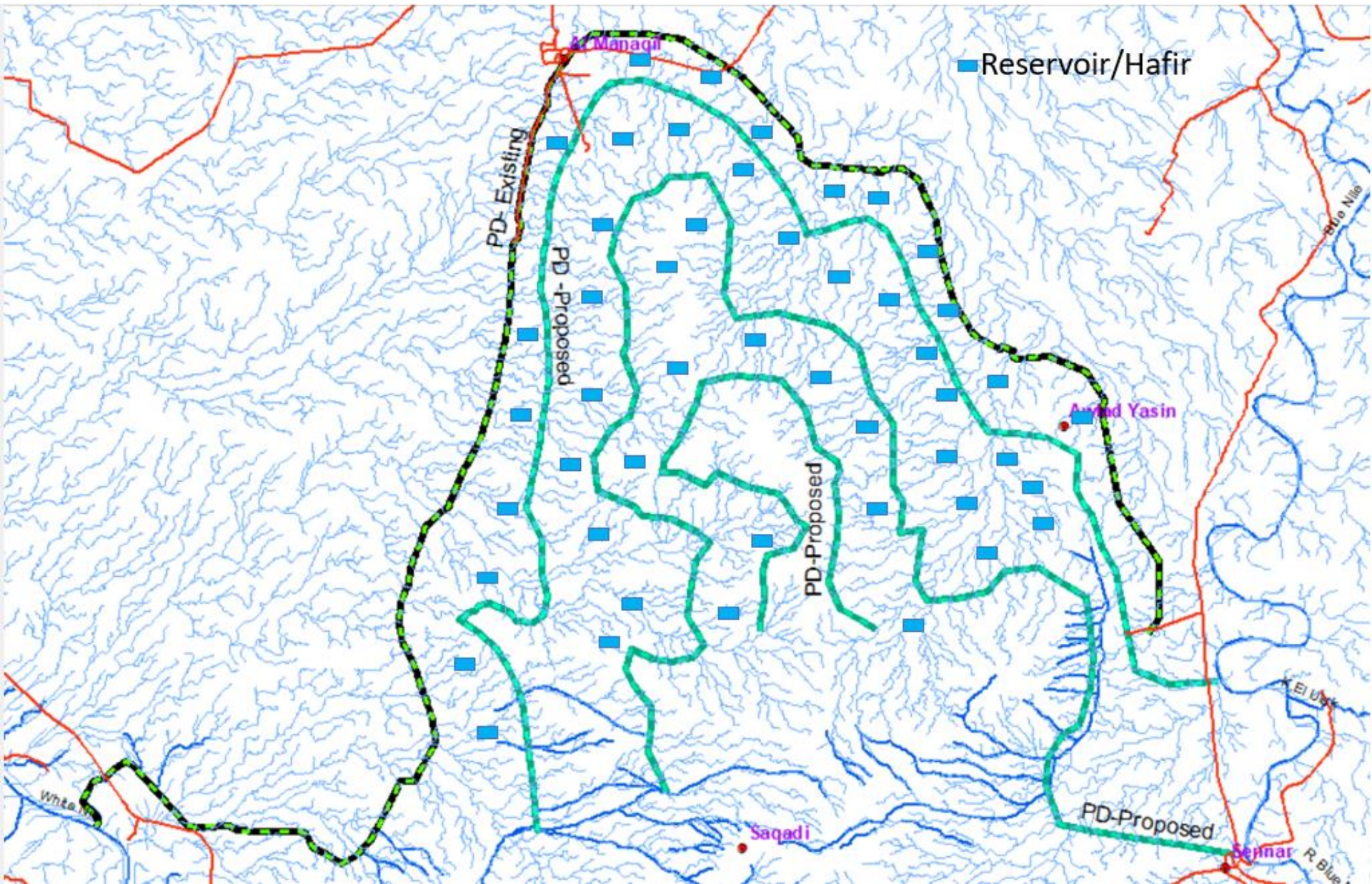
GR4W Management Zones

Depending on the need for GR4W, the country can be roughly divided into four zones:

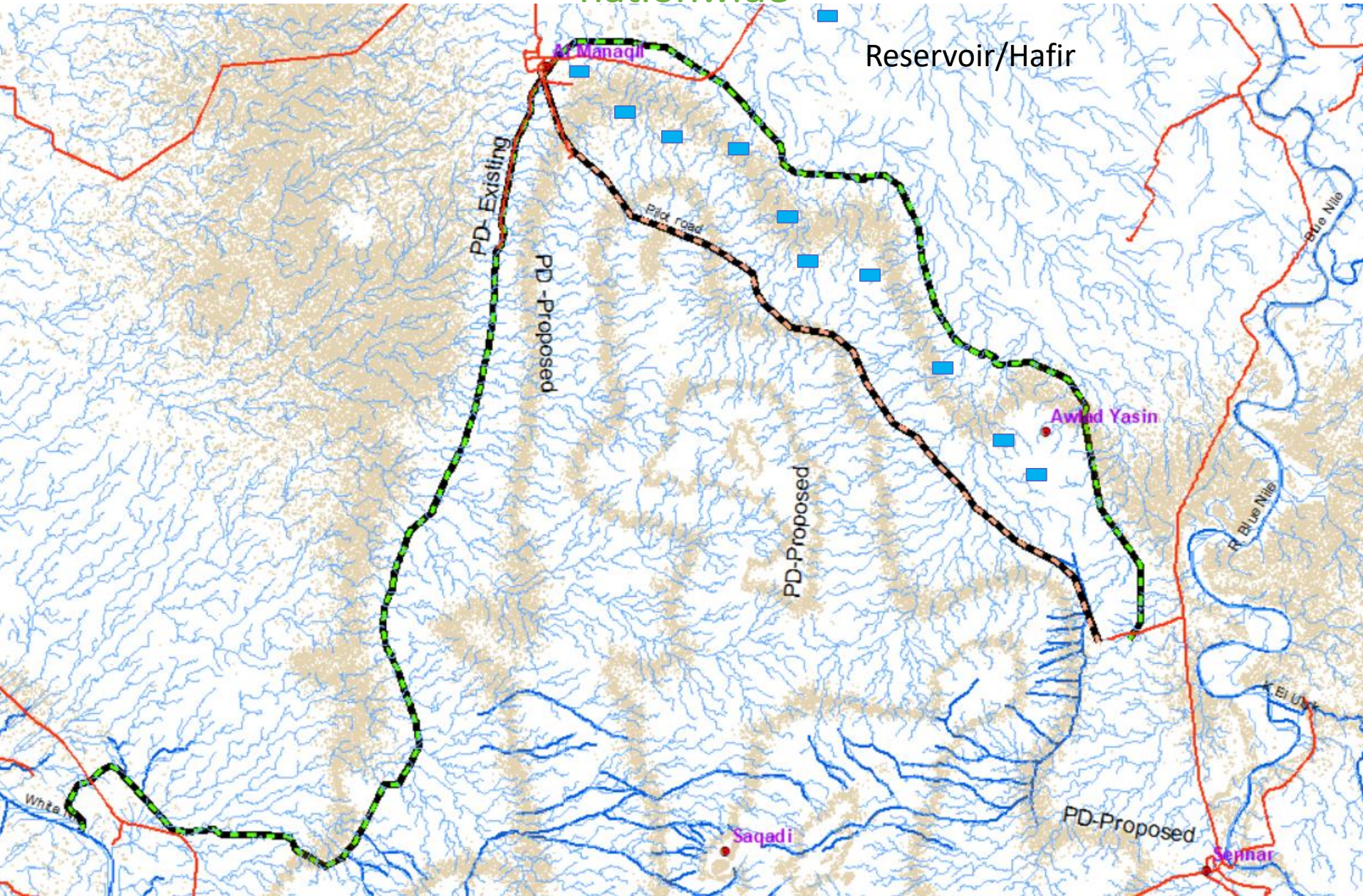
- The southern, higher rainfall and dominantly rainfed agricultural zone
- The intensively irrigated areas of Jazeera, Rahad and others
- The northern and north-western dominantly pastoral areas
- The coastal areas



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Piloting GR4W on planned new roads, such as this one, in areas that can address multiple issues is required to speed up its implementation, nationwide



Recommendation

R1:

R2:

R3:

R4:

R5:



Thank you!

For more information visit www.roadsforwater.org
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