

### Evaluation criteria elements and ranking conditions

Key criteria	Factor	Weight	Criteria	Score	Sources and comments
<b>1 Risk &amp; vulnerability profile</b>					
Hazard exposure	No. of different hazards	0,5	>2 different hazards 2 different hazards 1 hazard no significant hazards	4 3 2 1	GISTDA; Area-based analyses
	Topography: basin relief (Bh)	0,5	Bh > 2000m Bh 1500-2000m Bh 1000-1500m Bh < 1000m	4 3 2 1	Ozdemir & Bird (2009)
Disaster and climate risk	Flood risk: dominant category	0,5	high flood risk medium flood risk low flood risk no flood risk	4 3 2 1	DDPM, DWR
	Drought risk: dominant category	0,5	high drought risk medium drought risk low drought risk no drought risk	4 3 2 1	DDPM, DWR
Future climate trends	Change of av. rainfall in May-Oct (reference: 1990-2009 to 2050-2069)	0,5	> +25% / < -15% > +15-25% / < -15 - -5% + 5-15% -5% - 5%	4 3 2 1	Limsakul et al. 2017; CCRS & MOHC, 2014
	Change of max. temperature in May-Oct (reference: 1990-2009 to 2050-2069)	0,5	>3.0°C 2.0 - 3.0°C 1.0 - 2.0°C < 1.0 °C	4 3 2 1	Limsakul et al. 2017; CCRS & MOHC, 2014

Sensitivity / area-based	Area-based analysis zone	0,2	>1 area-based plans approved 1 area-based plan approved no area-based plans	4 3 1	DDPM, DWR
	Water quality	0,3	high relevance medium relevance low relevance not relevant	4 3 2 1	PCD 2018; HAI 2012; scoping missions
	Deforestation / land use issues	0,3	high relevance medium relevance low relevance not relevant	4 3 2 1	scoping missions
Risk related issues	Early Warning System evaluation	1	full op., full coverage, multi-haz full op., full coverage, main haz. full op., some coverage, main haz. not operational	4 3 2 1	TMD, RID, DWR systems scoping missions

<b>2 Urban setting</b>					
Urban population	Urban population	1	>100.000 pax 50.000-100.000 pax 20.000-50.000 pax <20.000 pax	4 3 2 1	DOPA, HAI basin report

<b>3 Socio-economic developments</b>					
Socio-economic value	Gross product per capita	0,5	>200.000 THB 150.000-200.000 THB 100.000-150.000 THB <100.000 THB	4 3 2 1	NESDB, 2016: Gross Prov. Product CVMs Average GPP per capita in 2016: THB 215'455 HAI basin report
	Labour force: pop. in working age	0,5	>1.000.000 pax 500.000-1.000.000 pax 100.000-500.000 pax <100.000 pax	4 3 2 1	

Critical infrastructure [#]	Power plants	0,2	1+ power station(s) >420 MW no critical power station	4 1	Per power threshold
	Water supply	0,2	1+ supply facility >22m <sup>3</sup> /yr no critical water supply facility	4 1	Per water prod. capacity
	Waste water treatment	0,2	1+ treatment facility >22m <sup>3</sup> /yr no critical water treatment facility	4 1	Per treated capacity
	Health facilities	0,2	1+ hospital(s) with >90 beds no critical hospital	4 1	Per hospital capacity
	Transport network & hubs	0,2	1+ transport hubs no critical transport unit	4 1	e.g. airport, seaport, GMS corridor (road, train)
Public and private investments	Special Economic Zones	0,4	>1 SEZ of high econ. relevance 1 SEZ of medium econ. relevance No special economic zone	4 3 1	high = nat. to reg. relevance med. = prov. to nat. relevance
	Industrial parks (planned)	0,2	1+ industrial parks No industrial parks	4 1	scoping missions
	Large infrastructure projects	0,2	1+ large projects No large projects	4 1	BoI
	No. of universities (present+planned)	0,2	1+ universities No universities	4 1	scoping missions

<b>4 Institutional and information landscape</b>					
Cooperation with key partners	Number of key partners present	0,5	3+ key partners 2 key partners 1 key partner no key partners	4 3 2 1	scoping missions
	Synergies with partner projects	0,5	>5 projects by >2 partners 2-5 projects by >1 partners 1-2 projects no related projects	4 3 2 1	scoping missions
Budget allocation	Budget allocated for IWRM and EbA by partners	1	THB >10m THB 10m - 1m THB <1m no budget allocated	4 3 2 1	scoping missions

Engagement with private sector	No. of cooperate partners in RBC	1	>4 coop. partners	4	scoping missions
			3-4 coop. partners	3	
			1-2 cooperative partners	2	
			No cooperate partners	1	
Adaptive capacity	Institutional capacity	0,5	high capacity for IWRM impl.	4	scoping missions
			generally good capacity	3	
			strongly varying capacity	2	
	Technical knowledge of IWRM, CCA and EbA	0,5	low capacity	1	scoping missions
			long-term, profound knowledge	4	
			good knowledge	3	
Data availability & monitoring	No. of monitoring stations (functional)	0,25	>10 stations	4	TMD, RID, DWR systems: data: meteo, groundw, surfacew, quality
			6-10 stations	3	
			3-5 stations	2	
			<3 stations	1	
	Water data time series [years]	0,25	up to 25 years and greater	4	dominant time series at majority of gauges
			10-25 years	3	
			5-10 years	2	
	Gauge types	0,25	0-5 years	1	TMD, RID, DWR systems: data: meteo, groundw, surfacew, quality
			2+ gauge types	4	
			2 gauge types	3	
	Data sharing between partners	0,25	1 gauge type	2	scoping missions
			no data / unknown	1	
common platform to share			4		
good sharing			3		
some sharing			2		
no sharing	1				

<b>5 Environment of change</b>					
Concerned provinces	Number of provinces	1	1-3 provinces 4-5 provinces 6-8 provinces > 8 provinces	4 3 2 1	
Basin planning	River Basin Development Plan (RBDP)	0,2	RBDP exists no RBDP	4 1	scoping missions
	RBDP considers IWRM EbA DRR CCA	0,2	3+ topics considered 2 topics considered 1 topic considered no consideration	4 3 2 1	scoping missions
	Water user competition & conflicts	0,6	no conflict but good cooperation some competition but cooperation high competition & conflict	4 3 1	scoping missions
Implementation	Operational Plan in place	0,2	Operational plan exists no operational plan	4 1	scoping missions
	Diversity of implemented measures	0,8	IWRM, EbA, DRR, CCA impl. IWRM measures +2 topics IWRM measures +1 topic only IWRM measures	4 3 2 1	scoping missions