

State of play: Aquaculture legislation in Germany

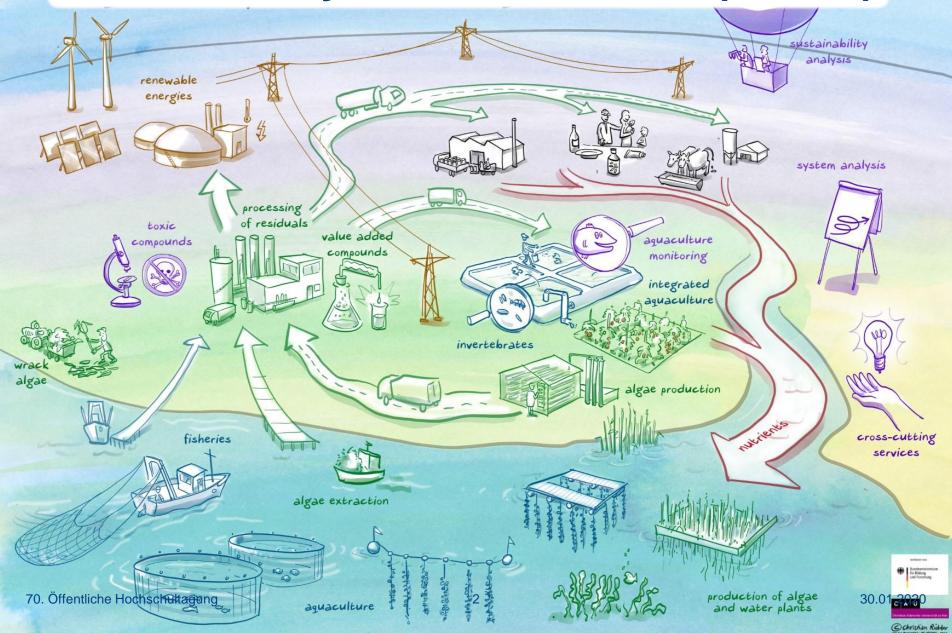
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06.02.2020
Blue Platform Workshop - Alignment of Aquaculture
Legislation
Helsinki, Fl



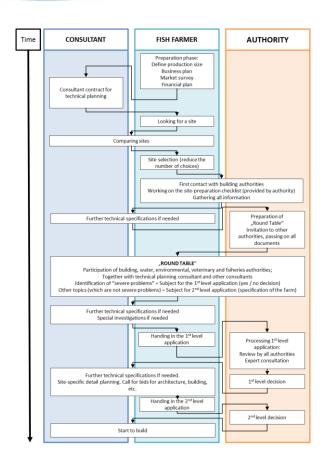


Bioeconomy at Marine Sites (BaMS)



* "Planning a RAS project" flow chart

- * "Fish farmer"
 - The person who wants to start the RAS farm
 - Needs to fulfil at least 80% of selfevaluation criteria
 - 20% (or more) are bought in as consultancy service and are internalized at a later stage
- * "Consultant"
 - Someone like me in the beginning (free of charge!)
 - * Technical consultant: facility planner, architect, building planner, ...
- * "Authority"
 - * Any competent authority involved in the project



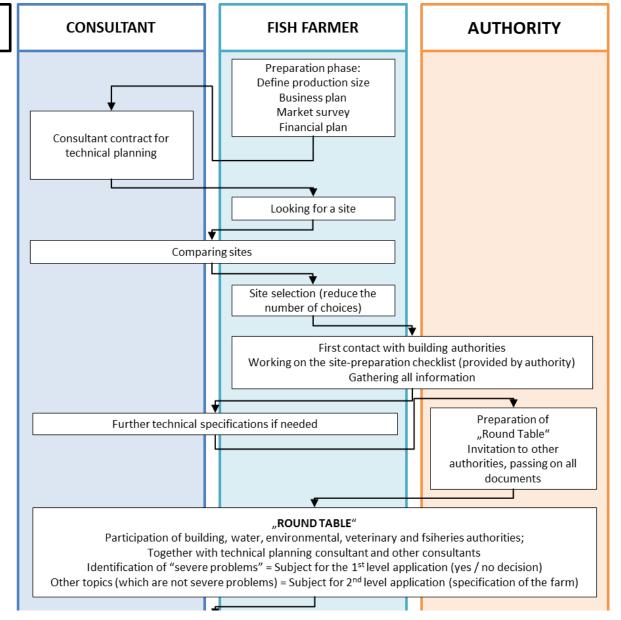
Time

Phase 1:

- Take your time!
- Most work for fish farmer
- Keep consultant costs down

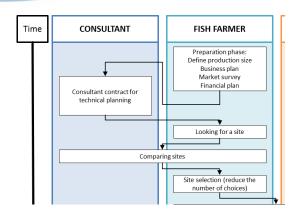
Phase 2:

- Get going!
- Buy in all technical specs that are needed
- Leave a good impression with authorities



* Phase 1: How to keep the consultant costs down?

- Work with published "key performance indicators (KPI)"
 - * 2-8 kWh/kg product
 - * 50 300 l/kg feed
 - * "realistic" growth rates and FCRs
 - * Feed cost quote by feed companies
 - * 8 12 €/kg investment per production capacity
- * Talk to other fish farmers!
- * Visit a lot of sites!



Phase 1:

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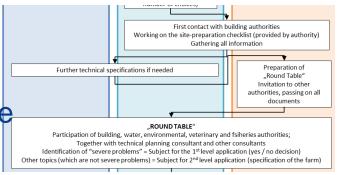
* Phase 2: When to take the final decision on the site?

Be sure you know all about the site

* Any problems in building?

* Archaeological remains or WW2 bombs in the ground?

- * Hazardous substances in the water?
- * Nasty neighbours?
- * Sufficient electricity, water supply, water discharge, street/traffic access?



Phase 2:

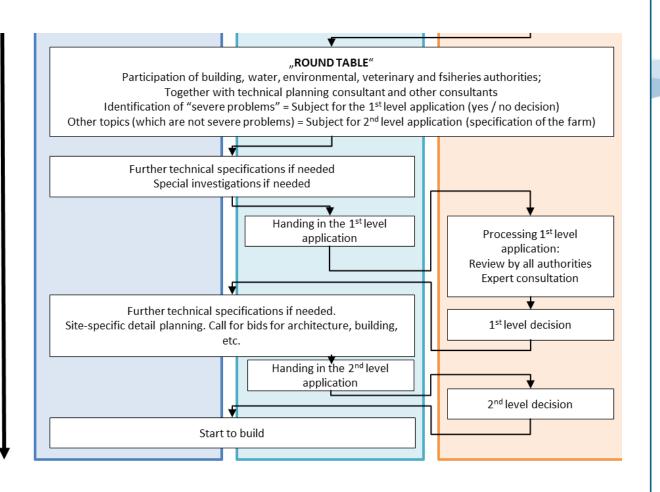
- Get going!
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Phase 3:

- Negotiate hard to get your building permit.
- Show clearly that you are up to serious business.
- Receive your 1st level permit
- Or move somewhere else

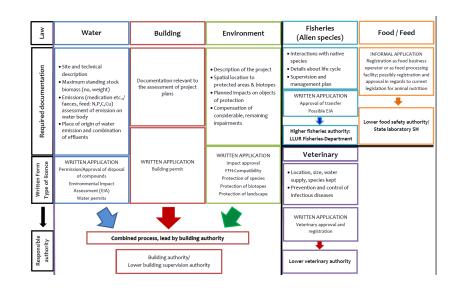
Phase 4:

- Now it begins.
- Fine planning.
- Financing needs to be fully in place.
- Funding/subsidie s as well.
- Cash flow needed.



Legal aspects of starting RAS in Germany

- For RAS, all really relevant legal aspects are combined under "building law"
- * All critical subjects are addressed in "round table" (Phase 1)
- * 3 months processing until decision
- * Administrative fee typically around 300 €
- If you are not happy, go for another site!



Legal bodies involved in RAS permission

Law	Water	Building	Environment	Fisheries (Alien species)	Food / Feed
Required documentation	Site and technical description Maximum standing stock biomass (no, weight) Emissions (medication etc.,/ faeces, feed: N,P,C,Cu) assessment of emission on water body Place of origin of water emission and combination of effluents	Documentation relevant to the assessment of project plans	Description of the project Spatial location to protected areas & biotopes Planned impacts on objects of protection Compensation of considerable, remaining impairments	Interactions with native species Details about life cycle Supervision and management plan	INFORMAL APPLICATION Registration as food business operator or as food processing facility; possibly registration and approval in regards to current legislation for animal nutrition
				WRITTEN APPLICATION Approval of transfer Possible EIA	•
				•	Lower food safety authority/ State laboratory SH
				Higher fisheries authority: LLUR Fisheries-Department	
		WRITTEN APPLICATION	WRITTEN APPLICATION		
\vdash	MIDITTEN ADDITION	MUDITTEN ADDITION		Veterinary	
Written Form Type of licence	WRITTEN APPLICATION Permission/Approval of disposal of compounds Environmental Impact Assessment (EIA) Water permits	WRITTEN APPLICATION Building permit	WRITTEN APPLICATION Impact approval FFH-Compatibility Protection of species Protection of biotopes Protection of landscape	Veterinary Location, size, water supply, species kept Prevention and control of infectious diseases	
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Responsible Type of licence	Permission/Approval of disposal of compounds Environmental Impact Assessment (EIA) Water permits		Impact approval FFH-Compatibility Protection of species Protection of biotopes Protection of landscape	Location, size, water supply, species kept Prevention and control of infectious diseases WRITTEN APPLICATION Veterinary approval and	

Planning RAS

Pre-planning

- Business plan
- Marketing concept
- Technical specs

district heating

- Free advice throughout preplanning
- Visits to reference sites
- Support to access subsidies

Permission

- Building
- Water
- Environment
- Vet/Hygiene

German legislation:

- 3 months until decision
- No license fee
- Minimal fee for handling application

Roll-out

- Contracting
- Building phase
- Start-up
- Operation

Support in

- procurement
- Staff acquisition
- Identification of R&D needs

Want to hear more?

EAS webinar, 1.5 h, Video available

- Aquaculture in Northern Germany
- Recirculating Aquaculture Systems (RAS)
 - * What is RAS?
 - * Is RAS an economically viable method?
 - * Should I start my own RAS production?
- Site selection for RAS in Germany
 - * Planning RAS
 - Legal aspects of starting RAS
 - Synergies with other industries
- Conclusions on where to start RAS





Site Location and licensing for landbased RAS in Germany – easy isn't it?!?

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European Aquaculture Society (EAS) Webinar, 05.04.2017

