INTRANEMMA - Areas where innovation is required in Mediterranean mariculture industry

FISH HEALTH & WELFARE ΥΓΕΙΑ ΚΑΙ ΕΥΖΩΙΑ SALUD Y BIENESTAR DE LOS PECES BALIK SAĞLIK ve REFAH	1	Understanding the principles of biosecurity
	2	Understanding of the epidemiology of main diseases
	3	Improved health management and biosecurity in hatheries
	4	Improved tools on early effective fish diagnosis at farm level
	5	Improved knowledge of health and safety rules and regulations
	6	Optimisation of veterinary on-farm treatment procedures
	7	Design of effective vaccination strategies
	8	Development of effective vaccines against Nodavirus infection
	9	Improvement of efficacy of Pasteurellosis vaccines
	10	Automated effective injection vaccination for juvenile fish (5-10g)
	11	Development of effective oral vaccines
	12	Development of effective treatments against fish parasites
	13	Improved collection methods and safe effective disposal of mortalities
	14	Development of welfare indicators (including hatcheries)
	15	Development of humane harvesting methods
	16	Reduction of stress
GENETICS - SELECTION - REPRODUCTION ΓΕΝΕΤΙΚΗ - ΕΠΙΛΟΓΗ - ΑΝΑΠΑΡΑΓΩΓΗ SELECCIÓN GENÉTICA Y REPRODUCCIÓN GENETİK - SEÇİM - REPRODÜKSİYON	17	Development of effective genetics selection program
	18	Genomic techniques for improving genetic selection
	19	Improvement of robustness in parallel with faster growth

HUSBANDRY / MANAGEMENT ΖΩΟΤΕΧΝΙΑ / ΔΙΑΧΕΙΡΙΣΗ GESTIÓN DE LA PRODUCCIÓN YETİŞTİRİCİLİĞİ / YÖNETİM	20	Domestication of selected species targeted towards new (global) markets
	21	Spawning induction and control fish broodstock sexual cycle
	22	Indentification of methods to reduce the duration of farming in the cages by at least 4 months
	23	Improving methods at hatcheries and increase in the level of automation
	24	Larval production predictability (survival and performance)
	25	Quest for new species with sustainable market development potential and sufficient diversification from sea bream and sea bass
	26	Identification of parallel product lines ('more than fish') with the existing hatchery and farming technology and environment
	27	Importation of knowledge, technology and talent form other marine sectors (renewable marine energy / shipping etc)
	28	Improved larval performance including effect on grow-out
	29	Improve phytoplankton production
	30	Automation in hatcheries including feeding, monitoring and Grading of juvenile fish
	31	Effective Grading of juvenile fish
	32	Reduction of deformities in juvenile fish
	33	Early detection and autometed screening for deformities in live fish
	34	Monitoring methods of fish growth in cage farms
	35	Automated monitoring of mortality rates
	36	Automated grading of fish in cage farms
	37	Automated estimation of fish number in cage farms
	38	Automated net cleaning and changing

	39	Automated harvesting
	40	New cage systems for offshore conditions
	41	Development of human free operational schemes for cage culture
	42	Improving underwater farm maintenance practices
	43	Improvement of transportation methods for live fish
	44	Improved production potential of cage sites
	45	Improvement of yield per fish
NUTRITION ΔΙΑΤΡΟΦΗ NUTRICIÓN BESLENME	46	Fish broodstock nutritional needs
	47	Elimination or streamlining of live feed production
	48	Improved larval feeds
	49	improved Feed performance based on alternative protein sources
	50	Validation of fish feeding behaviour
	51	Utilisation of farmed fish trimmings to create added value
	52	Knowledge of protein and nutrient assimilation in different culture conditions
	53	Fish feeding strategies to adapt to farming constraints
	54	Methods of growth assessment
	55	Forecasting tools for growth rate estimation
	56	Improvement of mean farm FCR
	57	Improved omega 3 profile in fish portion
ENVIRONMENT ΠΕΡΙΒΑΛΛΟΝ MEDIO AMBIENTE ÇEVRE	58	Monitoring of the aquatic production environmental paramaters
	59	Improved Environmental management of cage farms
	60	Reducing the escapees in sea cages

QUALITY / CONSUMER / MARKETS ΠΟΙΟΤΗΤΑ / ΚΑΤΑΝΑΛΩΤΗΣ / ΑΓΟΡΕΣ CALIDAD/CONSUMIDORES/MERCADOS KALİTE / TÜKETİCİ / PAZARLAR	61	Improved traceability systems
	62	Improved tagging systems
	63	Improved Fish fillet yield
	64	Husbandry and slaughtering effects on flesh quality
	65	Lenghtening the shelf-life of fish
	66	Improved processing and presentation methods
	67	Improved consumer perception on health benefits from aquaculture fish
	68	Improved image of Mediterranean mariculture sector products
	69	Improved sector presentation tools and strategies to the society
	70	Improved market mechanisms/ dynamics awareness
	71	Improved understanding of consumer preferences
TRAINING ΕΚΠΑΙΔΕΥΣΗ FORMACIÓN EĞİTİM	72	Improved training of fish farm personnel
	73	Training of farm personel on the potencial impacts of aquaculture on the environment
	74	Understanding of the role of farm workers in improving the sector's image
	75	Improved work safety conditions
POLICIES ΠΟΛΙΤΙΚΕΣ NORMATIVAS POLİTİKALARI	76	Access to available appropriate production sites /zoning
	77	Minimisation of potential conflicts with other costal zone stakeholders
	78	Improved knowledge of polcies and regulations