

GOVOCITOS

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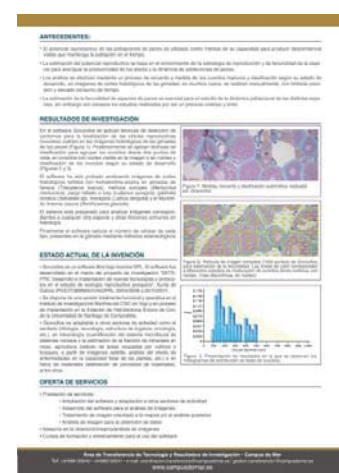
□ Key words

Software engineering / development

□ Description

The analytical evaluation of the quality and status of fish stocks is used to establish appropriate measures of fisheries management, to ensure the sustainability of resources. Traditionally, the determination of reproductive strategy and the estimation of fertility in fish have been tedious tasks that require a high degree of technical training and time-consuming work. The software Govocitos **allows making count analysis, measurement and automatic classification of fish oocytes, from histological images of the gonads, estimating fertility by stereological method and study the dynamics of oocyte development and recruitment.** The software presents information in base of a centralized database for sharing and collaboratively reviewing the data. Services based on these software and skills involved:

- Analysis and processing of micro and macroscopic images of all kinds of particles.
- Study of structural and morphological biological samples and other materials using common optical microscopy.
- Adaptation and training of specific software for each specific need.
- Advice on obtaining, enhancement and image analysis.
- Ecology fisheries: estimating the fecundity of fish and other species.
- Management of marine resources.



□ **Applicability of Technology to Maritime SMES**

Primary application would be in the aquaculture and fisheries industries to estimate the fecundity of fish eggs. Also adaptable to other sectors: health (cytology, neurology etc.), mineralogy (quantification of rock systems microfissural system), agriculture (calculating occupied area by crops or forests from satellite imagery areas), physical materials (estimated porosity of materials).