



ADCIS

ADvanced Concepts in Imaging Software



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Establish ADCIS as the industry leader in the field of Image Analysis software

- ⇒ **Development and marketing of the Aphelion™ Image Processing Software product**
- ⇒ **Delivery of image acquisition, processing, and analysis systems based on the Aphelion technology**
- ⇒ **Performance of contract engineering work in the field of Image Processing/Analysis/Understanding applied to most of the application domains**



Company Profile

⇒ **Founded in 1995**

- Joint effort by Bruno Lay & Amerinex Applied Imaging, Inc., a New Jersey company specialized in Image Processing and Millimeter Wave technology

⇒ **French SA (corporation)**

- Privately held with 10 investors

⇒ **Located in Normandy, France**

⇒ **65% of sales outside France**

⇒ **Worldwide product distribution**

- Direct sales and distributors





Strategic Partnerships

⇒ **Amerinex Applied Imaging (USA)**

- ADCIS stockholder at 25%
- Board of directors member
- North American distribution

⇒ **School of Mines, Paris**

- Center of Mathematical Morphology
- Cebio: Statistical Analysis

Research centers specialized in material science

⇒ **Relationships with universities worldwide**

- Site licenses, teaming, technology licensing



Aphelion Users

Aerospace
 Food Industry
 Automotive
 Biology
 Chemistry
 Quality Control
 Cosmetics
 Defense
 Electronics
 Energy
 Geology
 Material Science
 Pharmacology
 R&D
 Remote Sensing





Customer Profile

- ⇒ **Universities and Public Research laboratories**
- ⇒ **Research laboratories of private companies**
- ⇒ **Quality Control organizations**
- ⇒ **OEMs and Vision System suppliers**
- ⇒ **Machine Vision manufacturers**





Research Application Fields

ADCIS is involved in research projects that take benefit of ADCIS expertise:

- ⇒ 3D Image Processing
- ⇒ 3D Surface Model
- ⇒ Image Segmentation
- ⇒ Classification and Statistical Analysis
- ⇒ Image Registration

ADCIS was awarded the "**Organisme au titre du Crédit d'Impôt Recherche (CIR)**" accreditation delivered by the French Ministry of Higher Education and Research for its works in ophthalmology and material science



What ADCIS can bring to IFPRI members?

⇒ Imaging expertise

- Mathematical Morphology and other Image Processing fields
- Aphelion Imaging Software Suite and its specialized extensions
- Engineering expertise in the field of Material Science
- Custom Engineering work based upon a specification document

⇒ **Worldwide recognition in the field of Material Science**

⇒ **Access to large European Research Projects**



Some Examples

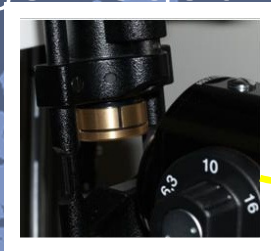
- ⇒ **Off the Shelf Aphelion Software**
- ⇒ **Interface to FIB and other microscopes**
- ⇒ **3D Imaging Tools (processing and analysis)**
- ⇒ **Inclusion Characterization (METIS)**
- ⇒ **Grain Sizing and Particle Characterization**
- ⇒ **Granulometry and Size Distribution**
- ⇒ **A new concept of Imaging Projects with partners spread in different locations/countries**





New Analysis Environment Concept

Image Acquisition



Haag-Streit System

Image upload to the « Cloud »

Manual annotation by experts

Good	(Grade Value)
RDG-10	(Grade Value)
RDG-10	0
RDG-10	0.5
RDG-10	1
RDG-10	1.5
RDG-10	2

Project Database (images and other data)

Statistical Analysis



Measurement Review

Image Processing & Analysis

Review of Acquisition/Grading process

Image Quality	Grade Value	Vessel Density (%)
EM	Good	2.5
FS	Good	2





What IFPRI members can bring to ADCIS?

- ⇒ **Access to a specialized community in the field of Material Science and Particle Characterization with immediate needs for particle characterization**
- ⇒ **A large community looking for imaging experts that can help develop specific applications involving automated imaging and analysis tools**
- ⇒ **Joint development work on R&D projects for which theoretical and practical expertise are needed**
- ⇒ **A very large database of 2D and 3D images**



Conclusion

- ⇒ ADCIS has a recognized expertise in the field of Image Processing and Analysis
- ⇒ Successful partnerships with the steel industry to develop custom software products
- ⇒ Aphelion has become the standard environment for imaging applications for large companies and research laboratories
- ⇒ ACCEA Project: Research project to optimize material conductivity using 3D images and measurements in the fields of aerospace and car industry

