

Nuclear Engineering

Operation and Exploitation of the Reactor, Dosimetry (RPI) and Reactor Calculations

Current Projects

	2004 ITN budget in €
<i>Fast Neutron Irradiation of Electronic Components for the LHC/CERN in the Portuguese Research Reactor</i> , FCT, POCTI/49559/FNU/2002. March 2003-September 2004 Total budget € 20.000, ITN budget € 20.000 Prime contractor: ITN Co-ordinator: J.G. MARQUES Partners: Univ. Complutense Madrid, Spain (J.A.AGAPITO), CERN (J. CASAS)	0
<i>SIMPLE-Lx: a Portuguese contribution to the SIMPLE dark matter search</i> , POCTI/1999/FIS/32493, Oct. 2001-Dec. 2004 Total budget € 74.820, ITN budget € 74.820 Prime contractor: T. GIRARD ITN Co-ordinator: J.G. MARQUES	0
<i>Artificial neural networks for ion beam analysis</i> , POCTI/CTM/40059/2001 Oct. 2002 - Sept. 2004 Total budget € 15.540, ITN budget € 15.540 Prime contractor: ITN Co-ordinator: N. P. BARRADAS	4.662
<i>ThermoPhotoVoltaic cell based on GaSb</i> , European Commission Research Directorates, RTN2-2001-00454. Feb. 2002- Jul. 2004 Total budget: € 1.475.000 , ITN budget € 142.000 Prime contractor: EPM-MADYLAM/ENSHMG, France Co-ordinator: T. DUFFAR ITN Co-ordinator: N. P. BARRADAS Collaboration with 8 EU institutions	23.563
<i>Nuclear European Platform of Training and University Organisations</i> , 6º Programa Quadro Jan. 2004- Junho. 2005. Total budget: € 800.000, ITN budget € 16.908 Prime contractor: CEA-INSTN ITN Co-ordinator: J.G. MARQUES Collaboration with 34 European institutes	7.186
Total budget 35 411	

Approved Projects

	ITN budget in €
<i>Perturbed Angular Correlations experiments at the Portuguese Research Reactor</i> FCT, POCTI/FIS/58498/2004. January 2005- December 2006 Total budget € 85.000, ITN budget € 85.000 Prime contractor: ITN Co-ordinator: J.G. MARQUES	85.000
<i>Neutron Tomography at the Portuguese Research Reactor</i> POCTI/FIS/59287/2004, January 2005 December 2006 Total budget € 80.000, ITN budget € 80.000 Prime contractor: ITN Co-ordinator: J.G. MARQUES	80.000
<i>Development of Superheated Droplet Detectors for Neutron Dosimetry and Spectrometry Applications</i> POCTI/FIS/55930, Jan. 2005-Dec. 2006 Total budget € 65.000, ITN budget € 65.000 Prime contractor: ITN Co-ordinator: A. R. RAMOS	65.000
Total budget 230.000	

Applied Dynamics

Current Projects

2004 ITN budget in €

Balancing of Rotating Machinery

Contractor CEA, France. July 2003-June 2004

Total budget € 15000, ITN budget € 15000

Prime contractor: ITN Co-ordinator: J. ANTUNES

15000

Partners: Commissariat à l'Energie Atomique – CEA/Saclay, France (L. BORSOI)

Optimization of Flexible Rotor Balancing

Contractor EDP/CPPE. January 2000-March 2005

Total budget € 43395, ITN budget € 43395

Prime contractor: ITN Co-ordinator: J. ANTUNES

0

Partners: EDP/CPPE, Portugal (J. SOARES)

 Total budget 15000

Approved Projects

ITN budget in €

Optimization of the Noise Reduction in Tubular Heat Exchangers.

POCTI / 2005 - 2006

Total budget 50000 €, ITN budget 30000€

30000

Prime contractor: Instituto Politécnico de Setúbal, ITN Co-ordinator: J. ANTUNES

TEAMINT.

POCTI / 2005 - 2007

Total budget 130000 €, ITN budget 15000€

15000

Prime contractor: Faculdade de Ciências de Lisboa, ITN Co-ordinator: J. ANTUNES

 Total budget 45 000

Radiological Protection and Nuclear Safety

Environmental Radioactivity

Current Projects

	2004 ITN budget in €
<i>European Radon Research and Industry Collaboration Concerted Action- ERRICCA-2: European Commission Contract n° FIRI-CT-2001-20142, Jan. 2002- Jan. 2005.</i> ITN budget € 18848 Prime contractor: Building Research Establishment (UK) Co-ordinator: CHRIS SCIVYER ITN Co-ordinator: M.C. FAÍSCA	0
<i>Epidemiological Study of the Effects of Uranium Mining Residues. Ministry of the Health Contract 2002-2004.</i> Total budget € 500000 Prime contractor: INSA Co-ordinator: M. FALCÃO ITN Co-ordinator: F.P. CARVALHO Partners: INSA, IGM, ARS Centro	55 462*
<i>Vertical Profiles of Radioactive Aerosol Constituents Over Portugal (VPRACOP) (2004)</i> Prime contractor: ITN Co-ordinator: F.P. CARVALHO Free access to atmospheric research facility (instrumented aeroplane from U.K.)	
	Total budget 55 462

Submitted Projects

	ITN budget in €
<i>Desarrollo e Implementación de un programa para la Vigilancia Radiológica Ambiental en los Archipiélagos Macaronésicos.</i> INTERREG IIIB Espaço Atlântico (2000-2006) Total budget 1554400 €, ITN budget 727400 € Prime contractor: University of Laguna, Canarias; Co-ordinator: J.H. ARMAS ITN Co-ordinator: M.J. MADRUGA	727400
<i>Estudio del comportamiento de los radionucleidos en ecosistemas naturales el bosque mediterráneo Hispano-Portugués y los recursos hídricos fluviales. Repercusiones socioeconomicas y ambientales.</i> INTERREG IIIA Spain - Portugal Programme (2003-2004) Total budget 600000 €, ITN budget 120000 € ITN Co-ordinator: F. P. CARVALHO Prime contractor: University of Huelva, Spain; Co-ordinator: J.P. Bolivar	120000
<i>Radioactivity and mineralogical composition in ornamental rocks and other geological raw materials in Portugal</i> POCTI/CTM/61393/2004 Total budget 98400 €, ITN budget 49053 € Prime contractor: ITN; Co-ordinator: F. P. CARVALHO	49053
	Total budget 896453

Radiological Protection and Radioactive Waste Management

Current Projects

2004 ITN budget in €

Radioactive Liquids Discharges from Medical Facilities

March 2002-March 2004

Total budget € 23742.77, ITN budget € 0

Prime contractor: ITN Co-ordinator: R. TRINDADE

13 716.95 *

Partners: General Directorate for Health facilities and Equipment, DGIES (N. SANCHES)

Radioactive Liquid Discharges from Hospitals in Public Sewage of Lisbon Borough Council

March – December 2004

Total budget € 13164.60, ITN budget € 0

Prime contractor: ITN Co-ordinator: R. TRINDADE

0

Partners: Lisbon Borough Council , CML (Eng. TAMISSA MADEIRA)

Total budget 13 716.95

Radiological Risk and Safety Assessment

Current Projects

2004 ITN budget in €

Participation of ITN in the n-TOF experiment (PS213) at CERN

(FCT projects **POCTI/FNU/49557/2002** and **PDCT/FNU/50276/2003**)

4 200

Total budget € 80000 + 70000 , ITN budget €

ITN Co-ordinator: P. VAZ

Prime contractor: ITN

Preliminary Design Studies of an eXperimental Accelerator Driven System

(PDS-XADS) (EU contract N° **FIKW-CT-2001-00179**)

5 591

Total budget € 12101018 , ITN budget € 35986

ITN Co-ordinator: P. VAZ

Prime contractor: FRAMATOME – ANP

*Novel indazolebisphosphonates for bone mineral metabolism: synthesis, molecular modelling and pharmacological activities. Projecto **POCTI/QUI/39368/2001**, Jan 2002-Aug.*

0

Total budget € 78180, ITN budget € 6600

ITN Co-ordinator: M. NEVES

Prime contractor: INETI, F. C. TEIXEIRA

Chemical studies for design and production of new radiopharmaceuticals. EU-FP6 Programme

Marie Curie Host Fellowship for Transfer of Knowledge, Institute of Nuclear Chemistry and

0

Technology (ICHTJ), Warsaw, Poland, (2004-2008). Contract n° **MTKD-CT-2004-509224**

Total budget 170000€, ITN budget € Valor

Prime contractor: Prof. JERZY NARBUTT, Institute of Nuclear Chemistry and Technology

Partners: ITN (M. NEVES), Chalmers Institute of Technology, Forschungszentrum Rossendorf,

University of Zurich, Paul Scherrer Institute, Centre National de la Recherche Scientifique,

University of Mainz

Total budget 9 791

ITN budget in €

New Materials and Compounds

Advanced Materials Research Group

Current Projects

	2004 ITN budget in €
<i>Metallurgical characterisation of the EU ODS steel: TEM and XRD analysis EFDA (European Fusion Development Agreement), Jan 2003- Mar 2005</i> Total budget: 60000€, ITN budget 12000€ Prime contractor: ITN Co-ordinator: E. Alves	0
<i>Rare Earth doped Nitrides for high Brightness Electroluminescent emitters(RENIBEL)</i> Research and Training Networks EC. (Março 2002- Março 2005) Total budget: 1498182€, ITN budget 187298€ Prime contractor: Univ. of Strathclyde (UK), ITN Co-ordinator: E. Alves	27 850.85
<i>ThermoPhotoVoltaic cell based on GaSb,</i> European Commission Research Directorates, RTN2-2001-00454, 1 Jan. 2002 - 30 June 2005 Total budget: 1475000 €, ITN budget 142000 €, Prime contractor: EPM MADYLAM/CNRS;ITN Co-ordinator: N.P. Barradas	0
<i>Development of a new decorative MeNxOy and MeCxOy Thin Film system, with with Me = Ti, Cr, Zr and Al.</i> POCTI/CTM/ 38086/2001- Jun. 2003- Jun. 2006 Total budget 89473€, ITN budget 10000€ Prime contractor: Universidade do Minho; ITN Co-ordinator: E. Alves	6 600
<i>Self-Assembled Silicon Nano-Crystals.</i> POCTI/P/35462/CTM/00, Oct. 2002- Oct. 2005 Total budget 122775 €, ITN budget 16625€ Prime contractor: IST(P. Brogueira), ITN Co-ordinator: E. Alves	0
<i>-e--γPerturbed Angular Correlations and Emission Channeling Studies at ISOLDE/CERN.</i> FCT POCTI-FNU-49503-2002; Jan. 2004 – Jan 2005 Total budget: 65000 €, ITN budget 65000 € Prime contractor: ITN Co-ordinator: J.G. Correia	0
<i>Superconducting Borides: Properties and Materials Processing.</i> POCTI/CTM/ 39340/2002, Oct.03- Oct.05 Total budget 122775 €, ITN budget 17550€ Prime Contractor: Univ. Aveiro (V. Amaral), ITN Co-ordinator: E.Alves	4 400
<i>New biomarkers from nc II-IV semiconductors.</i> POCTI/CTM/45236/2002 Total budget 122775 €, ITN budget 16625€ Prime Contractor: Univ. Aveiro (T. Monteiro), ITN Co-ordinator: E.Alves,	17 550
<i>Report on surface analysis and characterisation of tokamak tiles exposed to large plasma fluences</i> (>1026 m-2). EFDA (European Fusion Development Agreement), Jan. 2004- Dec. 2004 Total budget: 50000€, ITN budget 10000€ Prime contractor: ITN Co-ordinator: E. Alves	0
<i>Characterization of Be₁₂Ti: 2 types of Be₁₂Ti should be analysed to assess the chemical composition, surface and internal composition, oxide layer and secondary phases.</i> EFDA (European Fusion Development Agreement), Jan. 2004- Dec. 2004	0

RESEARCH PROJECTS

Total budget: 65000€, ITN budget 13000€
Prime contractor: ITN Co-ordinator: E. Alves

Perturbed Angular Correlations and Emission Channeling Experiments at ISOLDE/CERN.

FCT: POCTI -FP -FNU -50145 -2003; Jan. 2003 – Jan 2004

0

Total budget: 45000 €, ITN budget 25000 €

Prime contractor: ITN Co-ordinator: J.G. Correia

Ion Implantation in Ceramic Oxide

CRUP, "Acções Integradas Luso-Espanholas", AE-88/04)

1000*

Total budget: 1000€,

Prime contractor: ITN Co-ordinator: R.C. Silva

Partners: Univ. Carlos III, Madrid, Spain (R. González)

Total budget 57 400.85

Approved Projects

ITN budget in €

Deposition of photocatalytic and self-cleaning Titania on glass surfaces

POCTI/FIS/58240/2004

11 565

Total budget 95000€, ITN budget 11565€

Prime contractor: Universidade do Minho (C.Tavares); ITN Co-ordinator: E. Alves

Particle detectors and beam profile monitors based on a-SiC:H alloys (MSIC-2)

FCT POCTI/FIS/...../2003

11 382

Total requested budget: 46133 €, ITN budget 11382 €

Prime contractor: IST Co-ordinator: R. Schwarz

Partners: ITN, Lisbon (E. Alves)

Synthesis and characterization of diluted magnetic semiconductors for spintronics applications

POCTI/FIS/61462/2004

22 000

Total budget 75000 €, ITN budget 22000€

Prime Contractor: Univ. Aveiro (N. Sobolev), ITN Co-ordinator: E.Alves

Microstructural studies of oxygen dispersion strengthen (ODS) steels

Convénio GRICES-CSIC:2004-2005

700

Total budget ~700 €, ITN budget 22000€

ITN Co-ordinator: E.Alves

Structural characterisation of the reference EUROFER-ODS steel.

EFDA (European Fusion Development Agreement), Jan 2004- Mar 2005

6 000

Total budget: 30000€, ITN budget 6000€

Prime contractor: ITN Co-ordinator: E. Alves

Implementation of External Analytical Microbeam at a Nuclear Microprobe

POCTI/CTM/...../2004

75 000

Total budget 75000 €, ITN budget 75000€

Prime Contractor: ITN Co-ordinator: R. C. Silva

Development of transparent and conductive oxide semiconductors p-type: from synthesis to devices-
poxi

19 372

POCTI/CTM/55945/2004

Total budget 78170 €, ITN budget 19372€

Prime Contractor: Univ. Nova (E. Fortunato), ITN Co-ordinator: E.Alves

Total budget 146 019

Condensed Matter Physics

Current Projects

	2004 ITN budget in €
<i>Hybrid Materials Prepared by Irradiation</i> POCTI/CTM/44150/02. January 2004-December 2006 Total budget € 87 000, ITN budget € 78 125 Prime contractor: ITN Co-ordinator: F.M. MARGAÇA Partners: University of Aveiro (I.M. MIRANDA SALVADO)	30 425**
<i>Installation of the Two-Axis Diffractometer DIDE,</i> ITN funds Prime contractor: ITN Co-ordinator: A.N. FALCÃO	0
<i>Installation of the Small Angle Neutron Scattering Instrument EPA,</i> ITN funds Prime contractor: ITN Co-ordinator: F.M.A. MARGAÇA	404 *
<i>Development of New Instruments</i> IAEA 11361/RO/R1/R2, Set. 2000- Dec. 2003 Total budget 20910€, ITN share 20910€ Prime contractor: ITN Co-ordinator: F.G. CARVALHO Partner: Research Institute for Solid State Physics and Optics, Budapest, Hungary, L. CSÉR	2 088
<i>Development of a Variable Geometry Multichannel Neutron Collimator</i> POCTI/1999/FIS/34449, Oct 2000-June 2003 Total budget approved 30000€, ITN share 30000€ Prime contractor: ITN Co-ordinator: A.N. FALCÃO	0
<i>Design and supply of in-pile beam extraction assemblies for the Greek Research Reactor, NRC Demokritos, Athens</i> IAEA Purchase order GRE1040-80877J Total budget 49500 € ITN share 49500 € Prime contractor: ITN Co-ordinator: A.N. FALCÃO	0
	<hr/> Total budget 32 917

** Amount entered just before the Project started.

Solid State

Current Projects

	2004 ITN budget in €
<i>COLOURSTONE - Heat induced colour modifications in carbonate stones,</i> POCTI/CTA/38339/2001. May 2002 – July 2004. Total budget € 30 000, ITN budget € 1 437 Prime contractor: Centro de Petrologia e Geoquímica / Lab. Mineralogia e Petrologia, IST. Coordinator: L. AIRES DE BARROS. Partners: ITN (J.C. WAERENBORGH)	718
<i>Magnetic properties of metalloproteins: an integrated approach</i> POCTI / 35324 / FIS / 2000. January 2001 – December 2004. Total budget € 89 780, ITN budget € 8 105. Prime contractor: Fundação da Fac. Ciências da Universidade de Lisboa. Coordinator: L. FERREIRA Partners: ITN (J.C. WAERENBORGH)	0
<i>MODELWASTE – Modelling of pollutant dispersion around waste disposal sites: a mineralogical, hydrogeological and chemical study</i> POCTI/CTA/43390/01. February 2003 – July 2004.	0

RESEARCH PROJECTS

Total budget € 30 000, ITN budget € 1 370.

Prime contractor: Fund. Fac. Ciências da Univ. Lisboa. Coordinator: J. FIGUEIRAS.

Partners: ITN (J.C. WAERENBORGH)

Study of the Dy-Fe-Sn phase diagram

POCTI/CTM/38320/2001. May 2003 – May 2006.

0

Total budget € 41 188, ITN budget € 41 188.

Prime contractor: ITN. Coordinator: L.C.J. PEREIRA.

Molecule magnets based on decamethylmetallocenes and DCNQI derivative planar acceptors,

POCTI/39601/QUI/2001. April 2002-March 2005

0

Total budget € 71 400, ITN budget € 60 300

Prime contractor: ITN Co-ordinator: V. GAMA

Partners: Univ. Técnica de Lisboa, Inst. Sup. Técnico (M.T. DUARTE)

Preparation and study of new intermetallic compounds with U, Fe and Al, Si or B,
ICCTI/Embaixada de França, 2003-2004

850*

Total budget € 850, ITN budget € 850

Prime contractor: ITN Co-ordinator: A.P. GONÇALVES

Synthesis, crystal growth and characterization of new f-element borides and borocarbides with Ni, Pd, or Pt

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POCTI/QUI/46066/2002. June 2003-June 2006

Total budget € 28 440, ITN budget € 28 440

Prime contractor: ITN Co-ordinator: A.P. GONÇALVES

New rare earth intermetallic compounds with thermoelectric application

Projecto de acções integradas de cooperação científica e técnica Luso-Francesa, programa Pessoa 2004/2005.

1 700*

Total budget € 1 700, ITN budget € 1 700

Prime contractor: ITN Co-ordinator: A.P. GONÇALVES

Physical properties of strong correlated systems

ICCTI/ASCR (Academia das Ciências da Republica Checa) 2004

1 900*

Total budget € 1 900, ITN budget € 1 900

Prime contractor: ITN Co-ordinator: A.P. GONÇALVES

Materiais moleculares com propriedades magnéticas e eléctricas especiais, ICCTI/CSIC (Barcelona) 2004

561.34*

Total budget € 1 900, ITN budget € 1 900

Prime contractor: ITN Co-ordinator: M. ALMEIDA

New transition metal bisdithiolene complexes for conducting and magnetic materials

Projecto de acções integradas de cooperação científica e técnica Luso-Francesa, programa Pessoa 2004/2005.

1 700*

Total budget € 1 700, ITN budget € 1 700

Prime contractor: ITN Co-ordinator: M. ALMEIDA

Thiophenic Dithiolates as building blocks in molecular materials: Physical properties – Crystal structure correlation

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POCTI/QUI/45108/2002. September 2003-September 2006

Total budget € 88 045, ITN budget € 88 045

Prime contractor: ITN Co-ordinator: I. C. SANTOS

Materials for organic electronics NEOFETS

POCTI/CTM/41117/2001. November 2002-October 2005

0

Total budget € 120 000, ITN budget € 60 000

Prime contractor: IT Co-ordinator: L.J. ALCÁCER

Partners: ITN (M. ALMEIDA), Univ. Algarve, Univ. Técnica de Lisboa-IST.

2CHIMAG Two chain compounds under high magnetic field

POCTI/FAT/39115/2001. September 2002-August 2005

RESEARCH PROJECTS

Total budget € 90 000, ITN budget € 60 000 Prime contractor: ITN Co-ordinator: R.T. HENRIQUES Partners: ISEL (M. MATOS)	0
<i>Heavy-Fermion Properties of the systems $(U_xTh_{1-x})_2Pt_2In$ and $(U_xTh_{1-x})_2Pd_2In$, POCTI/P/FIS/12070/2001.</i> Total budget € 32 421.86, ITN budget € 16 210.93 Prime contractor: ITN Co-ordinator: G. BONFAIT Partners: Univ. Lisboa, Dept. Física (M. GODINHO)	1 057.7
<i>Pulse Tube Cryocooler Development</i> POCTI/EME/35903/1999. Total budget € 99 760, ITN budget € 54 145 Prime contractor: ITN Co-ordinator: G. BONFAIT Partners: Univ. Nova Lisboa, FCT	0
<i>Mixed valence manganese oxides with perovskite</i> POCTI/FIS/35300/1999. October2000-February2005 Total budget € 114 723.52, ITN budget € 24 540.7 Prime contractor: Univ. Lisboa, Dept. Física: M. GODINHO Partners: ITN (G. BONFAIT), Univ. Minho	13 468
<i>Contract N°G5RT-CT2000-05001-Thematic Network MULTIMETOX. March2000-March2003</i> Total budget € 41 400, ITN budget € 41 400 ITN Co-ordinator: G. BONFAIT	3 535.6
<i>“Outros Projectos” (transferência de outros centros de resultados cujos projectos já terminaram)</i> ITN Co-ordinator: M. ALMEIDA	0
Total budget	25 490.70

Approved Projects

	ITN budget in €
<i>Structural and Magnetic Study of Low-dimensional Coordination Compounds</i> POCTI/FIS/57876/2004, March 2005-February 2007 Total budget € 53 400 Prime contractor: Dept. Física da Universidade de Coimbra. Coordinator: M. RAMOS. ITN Co-ordinator: L.C.J. PEREIRA	12 000
<i>Molecular approach to nanomagnets and multifunctional materials – MAGMANET</i> Proposal of NOE 500341-2 Priority3-NMP, in collaboration with 15 other Institutions, lead by D. Gatteschi, Florence, March 2005-February 2009 Total budget € 10 000 000 ITN Co-ordinator: M. ALMEIDA	525 895
<i>Assessment of the high technology metals potential of ancient mine tailings</i> POCTI/CTE GEX/61700/2004, March 2005-February 2008 Total budget € 53 400 ITN Co-ordinator: J.C. WAERENBORGH	12 000
Total budget	549 895

Submitted Projects

	ITN budget in €
<i>Brownmillerite compounds containing Iron (IV): new materials for SOFCs</i> POCTI/QUI/58915/2004 March 2005-February 2007 ITN Co-ordinator: J.C. WAERENBORGH	9 600
<i>Novel highly extended transition metal bisdithiolene complexes</i> POCTI/QUI/57528/2004	9 500

RESEARCH PROJECTS

January 2005-December 2007
ITN Co-ordinator: M. ALMEIDA

Non-Fermi liquid behaviour in uranium based compounds
POCTI/QUI/57428/2004

9 500

January 2005-December 2007
ITN Co-ordinator: L. BALICAS

Total budget 28 600

Environmental Sciences

Atmospheric Elemental Dispersion

Current Projects

	2004 ITN budget in €
<i>BIOCAL – Calibration of in situ biomonitors for quantification of the atmospheric dispersion of heavy metals</i>	
POCTI/CTA/38411/2001. February 2002-February 2005	
Total budget € 80000, ITN budget € 30 954	24 000
Prime contractor: ITN Co-ordinator: M.C. FREITAS	
Partners: CIIMAR, LAQUIPAL, CVRM	
Total budget	24 000

Submitted Projects

	ITN budget in €
<i>Atmospheric Aerosol Impacts on Human Health</i>	
January 2005-December 2007	64 128
ITN Co-ordinator: S.M. ALMEIDA	
<i>SAP-Speciation of Airborne Particulate Matter, Chemical Characterization and Temporal Variation</i>	
January 2005-December 2007	39 216
ITN Co-ordinator: M.C. FREITAS	
<i>Atmospheric Selenium and Mercury Emission Source Identification. Effects on Residential Population</i>	
January 2005-December 2007	82 200
ITN Co-ordinator: M.C. FREITAS	
<i>Chemical Composition of Common Edibles in Portuguese Diets. Selenium Uptake and Speciation studies on Typical Food Items</i>	
March 2005-February 2008	32 952
ITN Co-ordinator: M.C. FREITAS	
<i>Portuguese Honey as a Source of Bioactive Ingredients</i>	
January 2005-December 2007	20 896
ITN Co-ordinator: M.C. FREITAS	
<i>Food Quality and Safety – its Traceability throughout the Production Chain for Foods of Animal Origin</i>	
March 2005-February 2008	31 776
ITN Co-ordinator: M.C. FREITAS	
<i>Hyper accumulation of Metals and Metalloids in Mining Areas through Alentejo. Biogeochemistry, Metabolism and Applications</i>	
January 2005-December 2007	9 000
ITN Co-ordinator: M.C. FREITAS	
Total budget	280 186

Environmental Analytical Chemistry

Current Projects

	2004 ITN budget in €
<p><i>Consequences of River Discharge Modifications on Coastal Zone and Continental Shelf (CRIDA)</i> PLE/8/00. October 2001-October 2004 Total budget: 623 497 €, ITN budget: 242 133 € Prime contractor: ITN, Co-ordinator: M.F. ARAÚJO Partners: Inst. Hidrográfico, Univ. do Algarve, Univ. de Aveiro, Inst. de Meteorologia, ICAT, Fundação da Faculdade de Ciências da Universidade de Lisboa.</p>	86 286.65
<p><i>Assessing the Impacts of Agriculture on Groundwater Quality using Nitrogen Isotopes</i> POCTI/CAF/47223/2002. January 2004-December 2006 Total budget: 105 000 €, ITN budget 28 000 € Prime contractor: ITN, Co-ordinator: P.M. CARREIRA</p>	11 197
<p><i>Late Quaternary Environmental Changes from Estuarine and Shelf Sedimentary Record (ENVI-CHANGES)</i> PLE/12/00. September 2001-September 2004 Total budget: 369 110 €, ITN budget: 22 396 € Prime contractor: ITN, Co-ordinator: M.F. ARAÚJO Partners: Museu Nacional de História Natural, Inst. Hidrográfico, Univ. de Aveiro, Fundação da Fac. de Ciências da Univ. de Lisboa, Univ. de Bordeaux I.</p>	5 000
<p><i>Indigenous and Feniciun at "Almaraz"</i> <i>Crasto de Palheiros</i> <i>Characterization of Metallic Artefacts from "Castro de Pragança/Cadaval"</i> Protocolo "ITN-IPA" Programa-B. Caracterização de Metais e Ligas Metálicas Pré-Históricas, January 2004-December 2004 Total budget: 4 900 €, ITN budget 4 900 € Co-ordinator: M.F. ARAÚJO</p>	4 988 ¹
<p><i>Study of River Discharge Modifications on Coastal Zone and Continental Shelf</i> GRICES-IFREMER. January 2003-December 2003 Total budget: 775 €, ITN budget 775 € Prime contractor: ITN, Co-ordinator: M.F. ARAÚJO Partners: Univ. de Bordeaux I.</p>	775*
<p><i>Groundwater Resources as Indicators and Archives of Palaeoclimatic Changes (NW-Portugal)</i> POCTI/39435/CTA/2001. May 2002-May 2004 Total budget: 30 000 €, ITN budget: 20 060€ Prime contractor: ITN, Co-ordinator: P.M. CARREIRA Partners: Instituto Superior Técnico, Inst. de Ciências da Terra e do Espaço.</p>	0
<p><i>The Isotopic Composition of Precipitation in the Mediterranean Basin in Relation to Air Circulation Patterns and Climate</i> IAEA POR/11368/RO. January 2001-December 2004 ITN total budget: 16 600 € Prime contractor: International Atomic Energy Agency – Isotopic Hydrology Section, ITN Co-ordinator: P.M. CARREIRA Partners: University of Earth Sciences, Geography and Cartography (Algeria), Radiocarbon and Tritium Laboratory (Croatia), Egyptian Meteorological Authority (Egypt), Univ. d'Avignon (France), Institute for Environment and Development (Greece), Environmental and Energy Study Institute (Israel), Univ. La Sapienza (Italy), National Center for Nuclear Science, Energy and Technology (Morocco), Dep. of Environmental Sciences (Slovenia), Centro de Estudios y Experimentación de Obras Públicas (Spain), International Atomic Energy Agency (Turkey).</p>	0

RESEARCH PROJECTS

<i>Identification of Interaction Processes between Surface Waters and Shallow Groundwaters within Sado Hydrographical Basin – SW Portugal, RA 12957/RO</i>	
January 2004-December 2006	0
Total budget: 4 800 €, ITN budget 4 800 €	
Prime contractor: ITN, Co-ordinator: P.M. CARREIRA	
Partners: IAEA Research Agreement	
Total budget	108 246.65

¹: internal transfer from cr. 3803 to 3508

Approved Projects

	ITN budget in €
<i>Centre for Isotopes and Trace Elements Research</i> CISTER. January 2005-December 2007	
Total budget: 2 335 960 €	184 000
Prime contractor: ITN, Co-ordinator: M.F. ARAÚJO	
<i>Dissolved Gases in Subsurface Hydrology – CO₂-rich Thermomineral Waters (N-Portugal),</i> January 2005-December 2006	
Total budget: 50 000 €	35 800
ITN Co-ordinator: P.M. CARREIRA	
<i>Metallurgy and Society in Central Portugal Late Bronze Age</i> POCTI/HAR/58678/2004. February 2005-January 2008	
Total budget: 52 150 €	27 527
Prime contractor: Faculdade de Letras, ITN co-ordinator: M.F. ARAÚJO	
<i>Role of High Mountain Áreas in Catchment Water Resources – Northern/Central Portugal, HIMOCATCH</i> January 2005-December 2007	
Total budget: 100 000 €	15 590
ITN Co-ordinator: P.M. CARREIRA	
<i>Evaluation of the Hydrogeological Potential and Sea Water Intrusion Monitoring in Semi-Arid Zones using a Multitechnique Approach: Application to the Santiago and Maio Islands (Cabo Verde), HYDROARID</i> January 2005-December 2007	
Total budget: 61 000 €	15 000
ITN Co-ordinator: P.M. CARREIRA	
<i>Microecology and Littoral Dynamics: Definition of Multi-proxies Applicable to Quaternary Paleogeographical and Paleoclimatic Reconstruction, MicroDyn</i> Jan 2005-Dec 2007	
Total budget: 90 000 €	12 804
Prime contractor: Faculdade de Ciências (Univ. de Lisboa), ITN co-ordinator: M.F. ARAÚJO	
<i>Urban Groundwater and Environmental Management in the Northwest Portugal</i> Jan2005-Dec2007	
Total budget: 58 000 €	7 110
ITN Co-ordinator: P.M. CARREIRA	
Total budget	297 831

Submitted Projects

	ITN budget in €
<i>Identification of Interaction Processes between Surface Waters and Shallow Groundwaters within Sado Hydrographical Basin – SW Portugal, SUPWAT</i>	
Total budget: 99 120 €	54 500
ITN Co-ordinator: P.M. CARREIRA	

RESEARCH PROJECTS

<i>Mineral Waters Assessment and Protection – Cabeço de Vide Region (Central Portugal), MINWAT</i>	
Total budget: 92 660 €	25 010
ITN Co-ordinator: P.M. CARREIRA	
<i>Evolutionary Model of the Lagoonal and Estuarine Environments of the Ibero-Moroccan NE Atlantic Façade since the Lateglacial, EMIBEM</i>	
Total budget: 100 000 €	9 070
ITN Co-ordinator: M.F. ARAÚJO	
Total budget	88 580

Elemental Characterization and Speciation

Current Projects

	ITN budget in €
<i>Laboratório de Caracterização e Especiação de Aerossóis — LCEA</i>	17 662.92 ¹
(ITN component based on services)	
Total budget	17 662.92

¹ 17 662.92 internal transfers (CR:4261); 4 000.00 Processed not received

Approved Projects

	ITN budget in €
<i>Laboratório de Caracterização e Especiação de Aerossóis — LCEA</i>	
Programa Nacional de Reequipamento Científico, ref: REEQ-CONC/377/2001, Jan. 2005- Dez. 2007	700 000
Total budget 700 000 €, ITN budget 700 000€	
Prime contractor: ITN, ITN Co-ordinator: MIGUEL A. REIS	
Total budget	700 000

Environmental and Health Sciences

Biomedical Studies

Current Projects

	ITN budget in €
<i>Quality of skin as a barrier to ultra-fine particles (NANODERM)</i> EC/QLK4-CT-2002-02678, 2003-2005 Total budget € 1 097 994, ITN budget € 86 997 Prime contractor: Univ. Leipzig, Germany Co-ordinator: T. BUTZ Partners: INP, Poland (Z.. STACHURA), Univ. Debrecen, Hungary (J. HUNYADI), Univ. Bordeaux I, France (J.E. SURLÈVE-BAZEILLE), Univ. Bordeaux I/CNRS, France (P. MORETTO) ITN, Portugal (T. PINHEIRO)	0
<i>Bioavailability of lead in small mammals at a mine contaminated area in Alentejo (Central Portugal),</i> POCTI/BFE/3991/2001. October 2002- October 2005 Total budget € 120 000, ITN budget € 10 250 Prime contractor: CBA-FFC/UL Co-ordinator: Co-ordinator: M.L. MATHIAS Partners: ITN (T. PINHEIRO), CQB-FFC/UL (M.C. SANTOS), CEA-Univ. Évora (A. MIRA), CHPEBD-Univ. Coimbra (A. CABRITA)	0
<i>Markers of the pro-oxidant/antioxidant balance and characterisation of the allelic profile of apoE in inhabitants of Lisbon and Ponta Delgada</i> POCTI/ESP/41008/2001 / 2002 – Jun 2005. Total budget € 49 880, ITN budget € 10 250 Prime contractor: CBA-FFC/UL Co-ordinator: Co-ordinator: A.M.VIEGAS-CRESPO Partners: ITN (T. PINHEIRO), CQB-FFC/UL (M.C. SANTOS), Univ. Açores (L. PAVÃO), INSA (M.O. RODRIGUES)	0
<i>Contribution to the study of inflammation biomarkers in the Chronic Obstructive Pulmonary Disease (COPD)</i> FCG-Calouste Gulbenkian Foundation SDH.IC.I.01.22 / Dec. 2001- Jun 2005 Total budget € 44 889*, ITN budget € 3 500* Prime contractor: AIDFM-FM/UL Co-ordinator: A. BUGALHO DE ALMEIDA Partners: ITN (T. PINHEIRO), CQB-FFC/UL (M.C. SANTOS), CBA-FFC/UL (A.M.VIEGAS-CRESPO)	2 000 ^{§ 1}
<i>A pele como órgão de monitorização da acumulação de Ferro na hemocromatose</i> SPDV-Sociedade Portuguesa de Dermatologia e Venereologia, June 2004 -2005 Total budget € 12 000* Prime contractor: Dermatology Clinic, Sta. Maria Hospital Co-ordinator: RAQUEL SILVA Partners: ITN (T. PINHEIRO), Hemoterapy Clinic, st. Maria Hospital (R. Fleming).	500 ^{§ 1}
Total budget	0

[§] Budget controlled by project co-ordinator.

¹ payment in kind

Submitted Projects

	ITN budget in €
<i>Influence of micronised titanium dioxide on the molecular mechanisms involved in the UV-induced apoptosis of keratinocytes</i> Total Budget: 86 418 Prime contractor: ITN Co-ordinator T. Pinheiro Partner: IMM-UL and FFC-UL	53 178

RESEARCH PROJECTS

<i>Inflammatory and oxidative markers in atherosclerosis: relationship to outcome</i>	12 000
Total Budget: 95 548	
Prime contractor: FFC-UL Co-ordinator AM Viegas-Cespo	
Partner: ITN, INSARJ, ESTeSL/IPL, HDES (Açores), Uaçores	
<i>Maja squinado and Necora puber – Aquaculture, Biology and Conservation</i>	18 440
Total Budget: 98 976	
Prime contractor: FFC/FC/UL Co-ordinator L. Narciso	
Partner: FUL/UL, ITN, LMG/IMAR	
<i>Ceruloplasmin: a possible link between iron metabolism, oxidative stress and immune system?</i>	1 000
Total Budget: 71 633	
Prime contractor: INSARJ Co-ordinator L. Costa	
Partner: FFC-UL, ITN, HDSAC	
Total budget	84 618

Inorganic Chemistry, Radiochemistry and Radiopharmacy

Inorganic and Organometallic Chemistry

Current Projects

	2004 ITN budget in €
<i>Uranium(III) Complexes Supported by Scorpionate and Heteroscorpionate Ligands: Steric and Electronic Control of Metal Centre Reactivity</i> POCTI/QUI/46179/2002, Nov 2003- Nov 2005 Total budget 37240 euros, ITN budget 37240 euros Prime contractor: ITN Co-ordinator: N. MARQUES	11 172
<i>Oxidative coupling of methane (OCM) using f block element intermetallic compounds as catalytic precursors</i> FCT/POCTI/QUI/35394/1999, Jan 2000- Jan 2004 Total budget: 13000 x 10 ³ PTE; ITN budget: 64844 € Prime contractor: ITN Co-ordinator: JOAQUIM BRANCO	0
<i>Molecular Energetics</i> POCTI/1999/QUI/35406 Jan 2000- Jan 2004 Total budget: 100 000 €, ITN budget 4 350 € Prime contractor: IST ITN Co-ordinator: J. P. LEAL	600
<i>Immobilised surface rare earth and actinide aryloxides Activation of small molecules(CO₂, CH₄, C₂H₆)</i> FCT/POCTI/QUI/42919/2001, April 2002- April 2005 Total budget 41000 €; ITN budget: 38048 € Prime contractor: ITN Co-ordinator: MARIA TERESA ALMEIDA GASCHE	0
<i>Thermodynamic data of calcium phosphate biomaterials with different crystallinity</i> Convénio ICCTI - DAAD (2002-2004). Prime contractor ITN Co-ordinator J. P. LEAL	0*
<i>Mono- and dianionic triazacyclononane based ligands as ancillaries in lanthanide and transition metal chemistry</i> POCTI/QUI/46206/2002, Nov 2003 - Abril 2006 Total budget 46080 euros, ITN budget 23040 euros Prime contractor: ITN Co-ordinator: N. MARQUES	0
Total budget	11 772.

Approved Projects

	ITN budget in €
<i>Mass Spectrometry Network for Molecular and Biomolecular Analysis</i> CONC-REEQ/345/2001 Total budget 3 000 000 €, ITN budget 150 000 € Prime contractor: Rede Nacional de Espectrometria de Massa, ITN Coordinator: J. MARÇALO	150 000
<i>Estudos de Proveniência de Vidros Portugueses</i> POCTI/HAR/55882/2004 Total budget 45240 €; ITN budget 13448 € Prime contractor: FFCT/UNL, Coordinator A. PIRES DE MATOS Partners: ITN, IPPAR, IPT	0 13 448
<i>O Vidro em Arte: A Luz e a Cor</i> POCTI/EAT/60496/2004 Total budget 60603 €; ITN budget 4800 € Prime contractor: FFCT/UNL, Coordinator A. PIRES DE MATOS Partner: ITN	4 800
Total budget	168 248

Submitted Projects

	ITN budget in €
<i>Thermochemistry Studies of Actinide Species in the Gas Phase by FTICR/MS</i> POCTI/QUI/58222/2004, 2 years Total budget 63 600 €, ITN budget 63 600 € Prime contractor: ITN, Coordinator: J. MARÇALO	63 600
<i>Thorium and Uranium Intermetallic Compounds as Oxidation Catalytic Precursors for the Destruction of Volatile Organic Compounds</i> FCT, 3 years Total budget 66468 €, ITN budget 66468 € Prime contractor: ITN, Coordinator: JOAQUIM BRANCO	66 648
<i>Heterometallic Lanthanide Alkoxides and Aryloxides as Inorganic Precursors for Mixed Oxide Catalysts,</i> FCT/POCTI/QUI/60798/2004, 3 years Total budget 55692 €, ITN budget 55692 € Prime contractor: ITN, Co-ordinator: JOSÉ MANUEL CARRETAS	55 692
<i>Uranium Heterometallic Oxides. Surface Studies</i> FCT/POCTI/QUI/61294/2004, 3 years Total budget 99456 €, ITN budget 99456 € Prime contractor: ITN, Coordinator: MARIA TERESA ALMEIDA GASCHE	99 456
<i>Energetics of alkaline and alkaline-earth metal polialkoxides,</i> POCTI/QUI/56518/2004 ITN budget 41916 € Prime contractor: ITN, Coordinator: J. P. LEAL	41 916
<i>Energy-structure-reactivity relationships and antioxidant properties,</i> POCTI/QUI/58217/2004 Total budget 53892, ITN budget 13200 Prime contractor: FFCUL, ITN Coordinator: J. P. LEAL	13 200
Total budget	340 512

Inorganic and Radiopharmaceutical Chemistry**Current Projects**

	2004 ITN budget in €
<i>Re and Tc Complexes for Peptide Based Radiopharmaceuticals: Chemistry, Radiochemistry and Biological Studies in vivo and in vitro</i> POCTI/35423/QUI/99, October 2000 – March 2004 Total budget 91 679 €, ITN budget 91 679 € Prime contractor: ITN Co-ordinator: I. SANTOS	0
<i>Radiopharmaceuticals for Treatment of Bone Cancer Pain and/or Therapy Based on Macrocyclic Lanthanide Complexes</i> POCTI/35859/SAU/99, March 2002- March 2005 Total budget 86 616 €, ITN budget 49 880 € Prime contractor: ITN. Co-ordinator: I. SANTOS Partner: Instituto Tecnologia Química e Biológica, Oeiras, R. DELGADO	0
<i>Organometallic Rhenium and Technetium Complexes: Design of Radiopharmaceuticals for Brain Receptor Imaging</i> POCTI/QUI/42939/2001, Feb. 2002- Feb. 2005 Total budget: 42 697 €, ITN budget 42 697 € Prime contractor: ITN Co-ordinator: A. PAULO	0
<i>Molecular Recognition and Sequestering of Metallic Ions Towards Potential Biomedical</i>	

RESEARCH PROJECTS

Applications

POCTI/35344/QUI/99, Nov. 2000 – Nov. 2004

Total budget 74.820×10^3 €, ITN budget 6.235×10^3 € 1 445.80

ITN Co-ordinator: L. GANO.

Prime contractor: Instituto Superior Técnico, Lisboa, M. A. SEABRA

Evaluation of the Genotoxic and Antiestrogenic Potential of Triphenylethylene Derivatives and their Metabolites

POCTI/33544/QUI/99, October 2000 – October 2004

Total budget 104 748 €, ITN budget 36 786 € 0

ITN Co-ordinator: M.C. MELO E SILVA

Prime contractor: Instituto Superior Técnico, Lisboa, M. M. MARQUES

Compostos organometálicos específicos

Research Contract M/TYCO/HEALTHCARE, June 2003-June 2006

Total budget 219 914 €, ITN budget 219 914 € 68 888.51

Prime contractor: ITN Co-ordinator: I. SANTOS

Virtual Radiopharmacy: A mindful Learning Environment: V Framework Programme Programme, EC Shared COST RTD ACTION

IST-2001-32291, Jan. 2002- Dec. 2004

Total budget 2 992 787 €, ITN budget 80 167 € 14 882.85

ITN Co-ordinator: LURDES GANO

Prime contractor: St. Bartholomew's Hospital. Co-ordinator: S. MATHER

Co-Ordination Action on Education and Training in Radiation Protection and Radioactive Waste Management,

VI Framework Programme FP6/508835, March. 2004- June. 2005

Total budget 297 600 €, ITN budget 10 000 € 5 571.24

Prime contractor: GRC, UK, ITN Co-ordinator: I. SANTOS

Total budget 90 762.40

Submitted Projects

ITN budget in €

Novel Metal Fragments Potentially Useful for Labelling Biologically Relevant Molecules with Tc and /or Re

January 2005-December 2007

Total budget 99 554 €, ITN budget 98 034 € 98 034

Prime contractor: ITN Co-ordinator: I. SANTOS

Multicomponent Technetium and Gallium Metallointercalators for Targeted Radiotherapy

January 2005-December 2007

Total budget 95 926 €, ITN budget 85126 € 85 126

Prime contractor: ITN Co-ordinator: A. PAULO

Novel Radioactive Probes for Molecular Imaging of Sigma Receptors

January 2005-December 2007

Total budget 97 126 €, ITN budget 97126 € 97 126

ITN Co-ordinator: A. PAULO

Novel Estradiol Ligands as Potential Probes of Estrogen Receptor Signalling

January 2005-December 2007

Total budget 99 908 €, ITN budget 51 204 € 51 204

ITN Co-ordinator: M. C. MELO e SILVA

Radiolabelling of L-Arginine Analogues with the fac-[^{99m}Tc(CO)₃]⁺ for Probing Nitric Oxide Synthase (NOS) in vivo: Synthesis, Characterization and Biological Evaluation

January 2005-December 2007

Total budget 99 977 €, ITN budget 92 777 € 92 777

ITN Co-ordinator: J. D. G. CORREIA

RESEARCH PROJECTS

Radiolanthanide Complexes with Bifunctional Chelators for Biomedical Applications: Chemistry, Radiochemistry and Biological Studies 96 886
January 2005-December 2007
Total budget 96 886 €, ITN budget 96 886 €
ITN Co-ordinator: M. P. CAMPELLO

Diabetic Nephropathy and Chronic Renal Disease: A Contribution to the Study of the Mechanisms Involved in Erythropoietin Deficient Anaemia 46 800
January 2005-December 2007
Total budget 99 624 €, ITN budget 46 800 €
ITN Co-ordinator: F. MARQUES

Targetting of Y1 and/or Y2 Receptors Expressed in Tumours with ^{99m}Tc Labelled Neuropeptide Y Analogues 99 358
January 2005-December 2007
Total budget 99 358 €, ITN budget 99 358 €
ITN Co-ordinator: P. RAPOSINHO

Total budget 667 311

Cultural Heritage and Sciences

Cultural Heritage and Sciences

Current Projects

	2004 ITN budget in €
<p><i>COLASU – Sustainability of Mediterranean coastal lagoon ecosystems under semi-arid climate</i> ICA3-CT-2002-10012. July 2002 – July 2005. Total budget: 795 000 €, ITN budget 124 404 € ITN Coordinator: M.I. PRUDÊNCIO. Prime contractor: Centre Nationale de la Recherche Scientifique, Univ. Louis Pasteur, Strasbourg, J. DUPLAY. Partners: France, Spain, Malta, Morocco and Tunisia.</p>	0
<p><i>The Archaeological Occupation of Castro Marim from the Iron Age to the Roman Epochen</i> POCTI/HAR/38334/2001. January 2002 – January 2005 Total budget 30 000 €, ITN budget 12 000 € ITN Coordinator: M.I. PRUDÊNCIO. Prime contractor: Centro de Arqueologia, Fac. Letras, Univ. Lisboa, A. ARRUDA</p>	6 473
<p><i>Effects of Different Pollution Sources in the Decay of Igneous Stone Monuments</i> POCTI/CTA/35600/99. March 2001 – March 2005 Total budget 175 000 €, ITN budget 19837 € ITN Coordinator: M.I. PRUDÊNCIO. Prime contractor: Univ. Minho, Braga, C.A. ALVES Partner: Univ. Açores, J. V. CRUZ</p>	0
<p><i>Non-point Pollution in the Hydrosphere Due to Agricultural Practices: Source Characterization and Pollutants Mobility in the Vadose Zone</i>, POCTI/36493/CTA/2000. January 2001 - December 2004 Total budget 69831 €, ITN budget 9487 € ITN Coordinator: M.I. PRUDÊNCIO. Prime contractor: Univ. Açores, J. V. CRUZ Partner: Univ. Lisboa, M.O. SILVA</p>	3 000
<p>ITN-IPA Protocol. January 2004 – December 2004 Total budget 70 000 €, ITN budget: 65 000 €</p>	65 012
<p><u>Archaeometry - Characterisation of Archaeological Ceramics</u> <i>Produção oleira no arrabalde ocidental da Lisboa islâmica.</i> ITN Coordinator: M.I. DIAS Archaeologist: JACINTA BUGALHÃO <i>Cerâmica romana de S. João de Perrelos (V.N.Famalicão).</i> ITN Coordinator: M.I. DIAS Archaeologist: FELISBELA LEITE <i>Muçulmanos e cristãos na península da Arrábida: o castelo de Palmela e a ruralidade envolvente</i> ITN Coordinator: M.I. DIAS Archaeologist: ISABEL FERNANDES <i>Ambientes funerários no Povoado dos Perdigões: cerâmicas do Neolítico final – Calcolítico do SO</i> ITN Coordinator: M.I. DIAS Archaeologist: M. SILVA & A.C. VALERA <i>Cerâmicas de sítios Pré-Históricos (Neolítico-Bronze Final) na área do PAVC.</i> ITN Coordinator: M.I. DIAS Archaeologist: ANTÓNIO F. CARVALHO. <i>A Alcáçova de Santarém durante a Idade do Ferro,</i> ITN Coordinator: M.I. DIAS Archaeologist: ANA ARRUDA <i>Caracterização de cerâmicas arqueológicas – ânforas Lusitanas – da Villa romana da Quinta das Longas, Elvas.</i></p>	

ITN Coordinator: M.I. DIAS

Archaeologist: ANTÓNIO CARVALHO.

"A Ocupação humana do Alto Paiva durante o I milénio AC".

ITN Coordinator: M.I. DIAS

Archaeologist: Alexandre Tiago dos Santos Valinho

"Do Neolítico à Idade do Bronze no Penedo do Lexim (Mafra)".

ITN Coordinator: M.I. DIAS

Archaeologist: Ana Catarina Sousa

"Castelo de São Jorge".

ITN Coordinator: M.I. DIAS

Archaeologist: Ana Gomes

"ARQUEHOREFREN (2002-2005)".

ITN Coordinator: M.I. DIAS

Archaeologist: Vitor Oliveira Jorge

"Projecto para o estudo e valorização da Villa Romana da Quinta das Longas (PEVLONG)".

ITN Coordinator: M.I. DIAS

Archaeologist: António Carvalho

Olaria romana do estuário do Tejo: centros de produção e consumo – Porto dos Cacos, Quinta do Rouxinol e núcleo arqueológico da Rua dos Correios.

ITN Coordinator: M.I. PRUDÊNCIO

Archaeologist: JORGE RAPOSO

Projecto de estudo das pastas de cerâmica recolhidas nas entulheiras do forno romano da Ajuda (Peniche).

ITN Coordinator: M.I. PRUDÊNCIO

Archaeologist: GUILHERME CARDOSO

Caracterização de cerâmicas arqueológicas de Sellium (Tomar).

ITN Coordinator: M.I. PRUDÊNCIO

Archaeologist: SALETE DA PONTE

A Alcáçova de Santarém durante a época Romana.

ITN Coordinator: M.I. PRUDÊNCIO

Archaeologist: ANA ARRUDA

Archaeometry: Absolute Dating – Radiocarbon and Luminescence

"Estudo do Megalitismo no Alentejo central" e "Estudo da Necrópole megalítica do Monte da Têra-Pavia". - Radiocarbon

ITN Coordinator: M.I. PRUDÊNCIO

Archaeologist: Leonor Maria Pereira Rocha.

"ESTRELA – A ocupação alto-medieval da encosta noroeste da Serra da Estrela". - Radiocarbon

ITN Coordinator: M.I. PRUDÊNCIO

Archaeologist: Catarina Tente.

"O Catro da Cárcoda na Protohistória do centro de Portugal". - Radiocarbon

ITN Coordinator: M.I. PRUDÊNCIO

Archaeologist: Ivone dos Santos Silva Pedro

"Castro de Palheiros. Projecto de estudo e de divulgação de uma estação arqueológica ocupada no Calcolítico e na Idade do Ferro (CRAPA)". - Radiocarbon

ITN Coordinator: M.I. PRUDÊNCIO

Archaeologist: M^a J. Sanches

"O Dólmán das Carniçosas (Figueira da Foz). Escavação, valorização e dinamização. Animação cultural e turística". - Radiocarbon

ITN Coordinator: M.I. PRUDÊNCIO

Archaeologist: Pedro Manuel Sobral de Carvalho

"Paleoalmonda". TL-OSL

ITN Coordinator: M.I. PRUDÊNCIO

Archaeologist: João Zilhão

ERA research Projects – Alqueva Dam impact, January 2002 – January 2003

4 500

Total budget: 12 500 € , ITN budget: 12 500 €

Archaeometric study of ceramics from the proto-historic occupation from the left side of the Guadiana basin (Moura) – Block 9.

ITN Coordinator: M.I. DIAS

Archaeologist: JOÃO ALBERGARIA

Archaeometric study of ceramics from recent pre-history of the left side of the Guadiana basin (M. Tosco, M. Valadares, Mercador) – Block 5.

ITN Coordinator: M.I. DIAS
 Archaeologist A. C. VALERA
Archaeometric study of ceramics from the roman occupation of the right side of the Guadiana basin (Xerez de Baixo) – Block 10.
 ITN Coordinator: M.I. DIAS
 Archaeologist SOFIA GOMES and SANDRA BRAZUNA.

Total budget 78 985

Approved Projects

ITN budget in €

Paleoenvironmental reconstruction using Chemical Analysis and Single-Grain Luminescence Dating. A non-biostratigraphical approach, COC-REEQ/590/2001. 323 500
 Total budget: 323 500 €; ITN budget: 323 500 €
 Prime contractor: ITN, M.I. PRUDÊNCIO

ITN-IPA Protocol, January 2005 – December 2005 35 000
 Total budget: 35 000 €, ITN budget: 35 000 €
 ITN Coordinator: M.I. PRUDÊNCIO

Archaeometry: Absolute Dating – Radiocarbon and Luminescence

“TEMPOAR II- Territórios, povoamento e mobilidade na Pré-História do Alto Ribatejo (Monumento 5 da jogada)” – TL-OSL

Archaeologist: Ana Rosa Gomes Pinto da Cruz

“TEMPOAR II- Territórios, povoamento e mobilidade na Pré-História do Alto Ribatejo (Anta 1 de Vale da Laje)” – TL-OSL

Archaeologist: Luis Miguel Oosterbeek e Ana Rosa da Cruz

“Ocupação Pré-histórica da área do Bairro Alto (OPABA)” – TL-OSL

Archaeologist: António Valera

“TEMPOAR II- (Ribeira da Ponte da Pedra)” – TL-OSL

Archaeologist: Luis Oosterbeek

ARQUEHOFREN-Estudo e valorização de sítios arqueológicos das áreas de Freixo de Numão e Horta do Douro- Vila Nova de Foz Côa - Radiocarbon

Archaeologist: Susana Oliveira Jorge, Vitor Oliveira Jorge

“O Navio Arade 1” - Radiocarbon

Archaeologist: Francisco Alves (CNANS)

“Anfiteatro de Conimbriga” - Radiocarbon

Archaeologist: Adriaan de Man

“Alba: povoamento Pré-Histórico no concelho de Alcobaça. Identificação e caracterização” - Radiocarbon

Archaeologist: Rita Isabel Gaspar

“PAIVAR 2002-2005- Entre Paiva e Arda/ Projecto arqueológico para o estudo da ocupação humana de um vale interior do Entre Douro e Vouga da Proto- História dos começos da Nacionalidade. - Radiocarbon

Archaeologist: Antonio Manuel Silva- (Centro de arqueologia de Arouca)

“Avaliação de impacto arqueológico do centro interpretativo do Castro de Ovil- CICO” – Radiocarbon

Archaeologist: Jorge Salvador

“Muçulmanos e Cristãos na Península da Arrábida: O castelo de Palmela e a ruralidade envolvente” - Radiocarbon

Archaeologist: Isabel Cristina de Ferreira Fernandes

“Povoado do Porto Torrão: Estudo dos contextos da intervenção de minimização de 2002 (PTT-MIN 2002).” - Radiocarbon

Archaeologist: António Valera

“Do Neolítico à idade do Bronze no Penedo do Lexim.” - Radiocarbon

Archaeologist: Ana Catarina de Freitas Sousa

Characterisation of Archaeological Ceramics

“Ânforas da Ilha Berlenga”.

Archaeologist: Jacinta Bugalhão e Sandra Lourenço

“A ocupação Muçulmana de Sintra: implantação e definição do povoamento no território.”

“Muçulmanos e Cristãos na Península da Arrábida: O castelo de Palmela e a Ruralidade envolvente”. *“Projecto de estudo e valorização da estação arqueológica de Frietas II”.* *“Produção Oleira no Arrabalde ocidental de Lisboa Islâmica”.*

RESEARCH PROJECTS

Archaeologist: Jacinta Bugalhão

"Arqueometria sobre cerâmicas vidradas arqueológicas de sítios medievais e pós medievais em Tomar".

Archaeologist: Maria de la Salette da Ponte

ARQUEHOREFREN-Estudo e valorização de sítios arqueológicos das áreas de Freixo de Numão e Horta do Douro- Vila Nova de Foz Côa

Archaeologist: Vítor Oliveira Jorge

"PAIVAR 2002-2005- Entre Paiva e Arda/ Projecto arqueológico para o estudo da ocupação humana de um vale interior do Entre Douro e Vouga da Proto- História aos começos da Nacionalidade."

Archaeologist: António Manuel Silva- (centro de arqueologia de Arouca)

"Povoado Fortificado do Bronze final de Serra de Alvaizere".

Archaeologist: Paulo Jorge Soares Felix

"TEMPOAR II- Territórios, povoamento e mobilidade na Pré-História do Alto Ribatejo (Monumento 5 da jogada)"

Archaeologist: Ana Rosa Gomes Pinto da Cruz

Total budget 358 500

Submitted Projects

ITN budget in €

<i>Chemical and mineralogical transformations evolved in ceramic production. Its implications on provenance and production technologies or archaeological ceramics</i>	50 000
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POCTI/CTE-GEX/57750/2004

Total budget 100 000 €

Prime contractor: ITN, M.I. DIAS

<i>Carbonate Dunes as Palaeoenvironmental Records in the Littoral of Portugal</i>	21 100
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POCTI/MAT/12345/2004

Total budget 98674 €

ITN Coordinator: A.M. MONGE SOARES

Prime contractor: FUL/UL

<i>Fluvial Terraces, references to evaluate the fluvial incision and crustal uplift in central Portugal (western Iberia)</i>	15 000
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POCTI/CTE-GEX/58120/2004

Total budget 100 000 €

ITN Coordinator: M.I. PRUDÊNCIO

Prime contractor: UE, A. MARTINS

<i>Datation, provenance et authenticité de matériaux céramiques archéologiques et muséologiques</i>	0
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Protocol ICCTI Portugal / French Embassy

ITN Coordinator: M.I. DIAS

Partner: CNRS (France): A. ZINK

<i>CHEMIMAR - Chemical and Mineralogical Markers Applied to Stratigraphic Analysis</i>	37 410
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Total budget 138 416 €

ITN Coordinator: M.I. PRUDÊNCIO

Prime contractor: Univ. Aveiro, E. SILVA

Total budget 123 510

Industrial Technologies

Radiation Technologies: Processes and Products

Current Projects

	2004 ITN budget in €
<i>Impact of ϵ beam and γ radiation on the wastewater treatment: comparative studies</i> IAEA, 302-F2-POR-12017 B5-POOR- 30739, 2002 –2004. The IAEA renew the contract until Nov.2005 Total budget 10 500 USD, ITN budget 10 500 USD Prime contractor: ITN Co-ordinator: M.L.BOTELHO	3 675
<i>Control environment in surgical rooms at the army hospitals and its impact on incidence of cross infections</i> LPM/MDN PIDDAC, 2003-2007. Total budget 00 €, ITN budget 0 000€ Prime contractor: H. Militar Co-ordinator: DR. PET MAZARELLO Partners: M. LUISA BOTELHO ITN, Portugal	2 880
<i>Implementation of wastewater treatment by radiation in Portugal</i> IAEA POR/8/010, 2003-2006. Total budget 152088 €, ITN budget € Prime contractor: ITN Co-ordinator: M.L. BOTELHO	8 900 ²
<i>Improving Quality and safety of Minimally Processed Fruits and Vegetables by Gamma Irradiation</i> IAEA POR/11682/ RBF, 2002-2004. Total budget €, ITN budget € 000 Prime contractor: INIA Co-ordinator:M.J. TRIGO Partners: M. LUISA BOTELHO ITN, Portugal	0
	Total budget 15 455

²Missions paid to researcher; Equipment “given” to ITN

Approved Projects

	ITN budget in €
<i>Upgrading of Radiation Technology unit.</i> FCT CONC-REQ/996/2001, 2005- 2007 Total budget 1.300.000 €, ITN budget 1.300.000 € Prime contractor: ITN, Co-ordinator: M.L. BOTELHO	1.300 000
<i>Estratégias Biotecnológicas para o Tratamento de Doenças Infecciosas: Direcionamento Intracelular de antibióticos e Oligonucleotídeos via Lipossomas</i> AdI Consortium, 2004- 2006. Total budget €, ITN budget 35 000 € Prime contractor: BLUEPHARMA, ITN Co-ordinator: M.L. BOTELHO	35 000
	Total budget 1 335 000

Submitted Projects

	ITN budget in €
<i>Impacto da Radiação gama na atenuação/inactivação viral, POCTI/SAL-ESPO/61686/2004, Mar.</i> 2005 - 2008 Total budget € 94.656, ITN budget € 52 056 Prime contractor: ITN Co-ordinator: M.L. BOTELHO	52 056
	Total budget 52 056

⁸ICCTI/GRICES- ITN does not have data to confirm the values in each Project. O GRICES Works through direct Money transfers to the researcher's private account.

¹The values written on the right are the amount really received (2004) including: transfers to partners and overheads.