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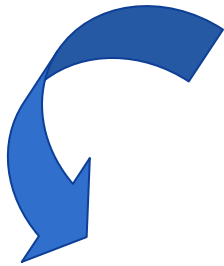
# Educell d.o.o. Cell Therapy Service



Ljubljana, 2009

## Educell – the activities today

“personal touch for personalised medicine”



- development of tissue engineering applications
- production of cell or TE products assigned to the patient

Clinical fields:

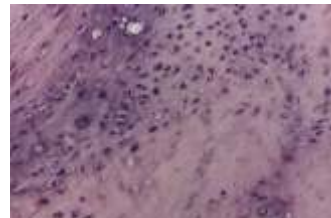
- orthopaedic, traumatology (cartilage and bone repair)
- urology (vesicoureteral reflux treatment)
- periodontology (bone regeneration)



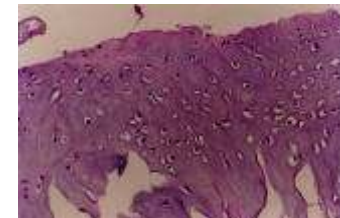
cell cultivation



biomaterials

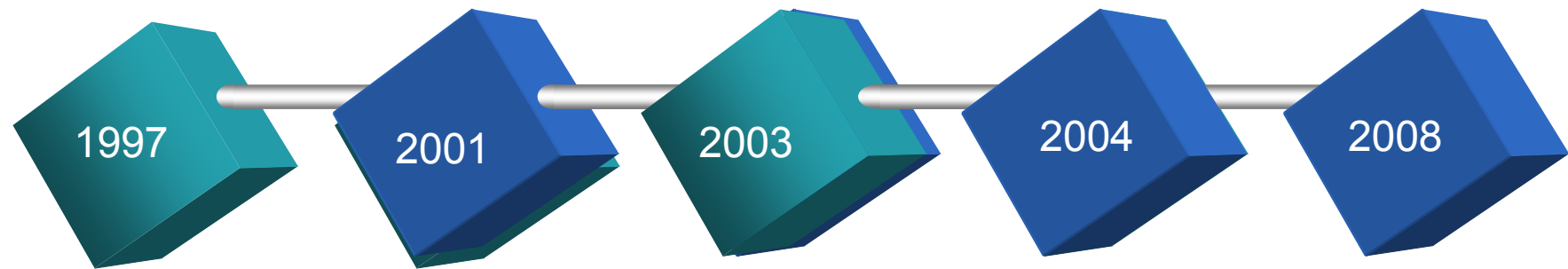


animal tests



clinical applications

# Educell - the history



## The foundation

### Activity area:

- TE cartilage
- Immunotherapy

## Second round Investment:

Educell GmbH, AT

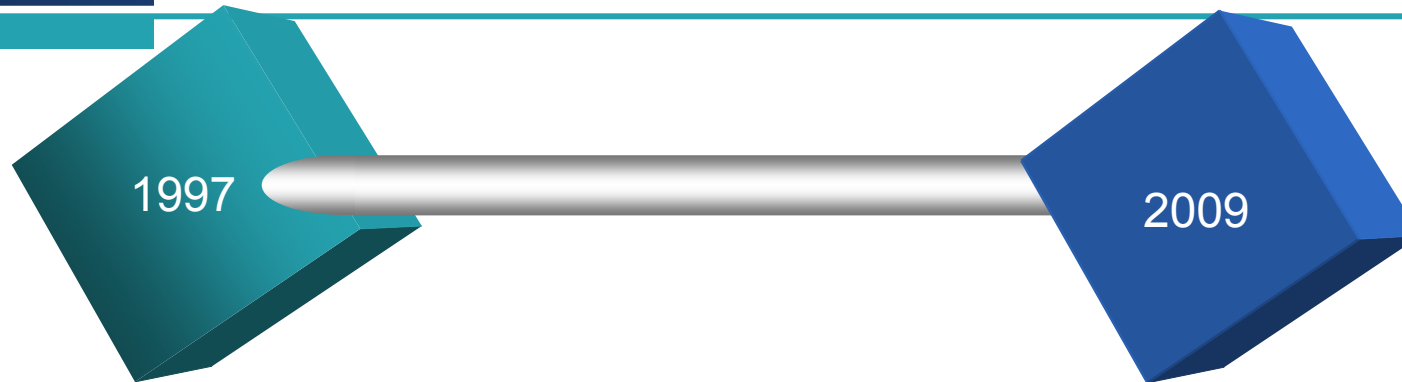
## Independent management

**Member of holding**  
Novoline Ltd.  
Slovenia

## - Products in Slo market

- Broad R&D activities
- Stem cell research
- EU projects

## Project group



- Blood Transfusion Centre of Slovenia
  - Clinical Centre Ljubljana, Orthopaedic Clinic
  - Educell, cell therapy company
- 
- CC, Department for urology, Department for traumatology
  - Community health centre Ljubljana
  - Medical Faculty: Institute for cell biology, institute for histology, Institute for patophysiology
  - Josef Stefan Institute
  - National Institute for Biology
  - Biotechnical Faculty

⇒ Establishment of Cell and Tissue Engineering Society of Slovenia (DCTIS)

## Milestone

1994	1st report of ACI (Brittberg, Peterson) Development of cell culture methods (dr.Jeras, Blood transfusion centre, UNI of Ljubljana)
1996	First ACI in Slovenia, Ljubljana (dr. Radosavljevič, UNI clinical centre, Department of Orthopaedics)
1997	Founding of Educell (HVM & partners)
1999	ACI approved from Ministry of Health for the treatment of knee cartilage lesions and accepted from Ministry of Health for financing
2000	Brand name ChondroArt 1D™ First application of ChondroArt 2D™ - chondrocytes on collagen membrane
2001	First ACI implantation for the treatment of vesicoureteral reflux
2007	First application of ChondroArt 3D™ - real 3D environment
2008	UroArt™ approved from Ministry of Health for the treatment of vesicourethral reflux and accepted for financing
2008	Tissue establishment licence (Agency for Medicinal Products and Medical Devices of the Republic of Slovenia)



## Products and development

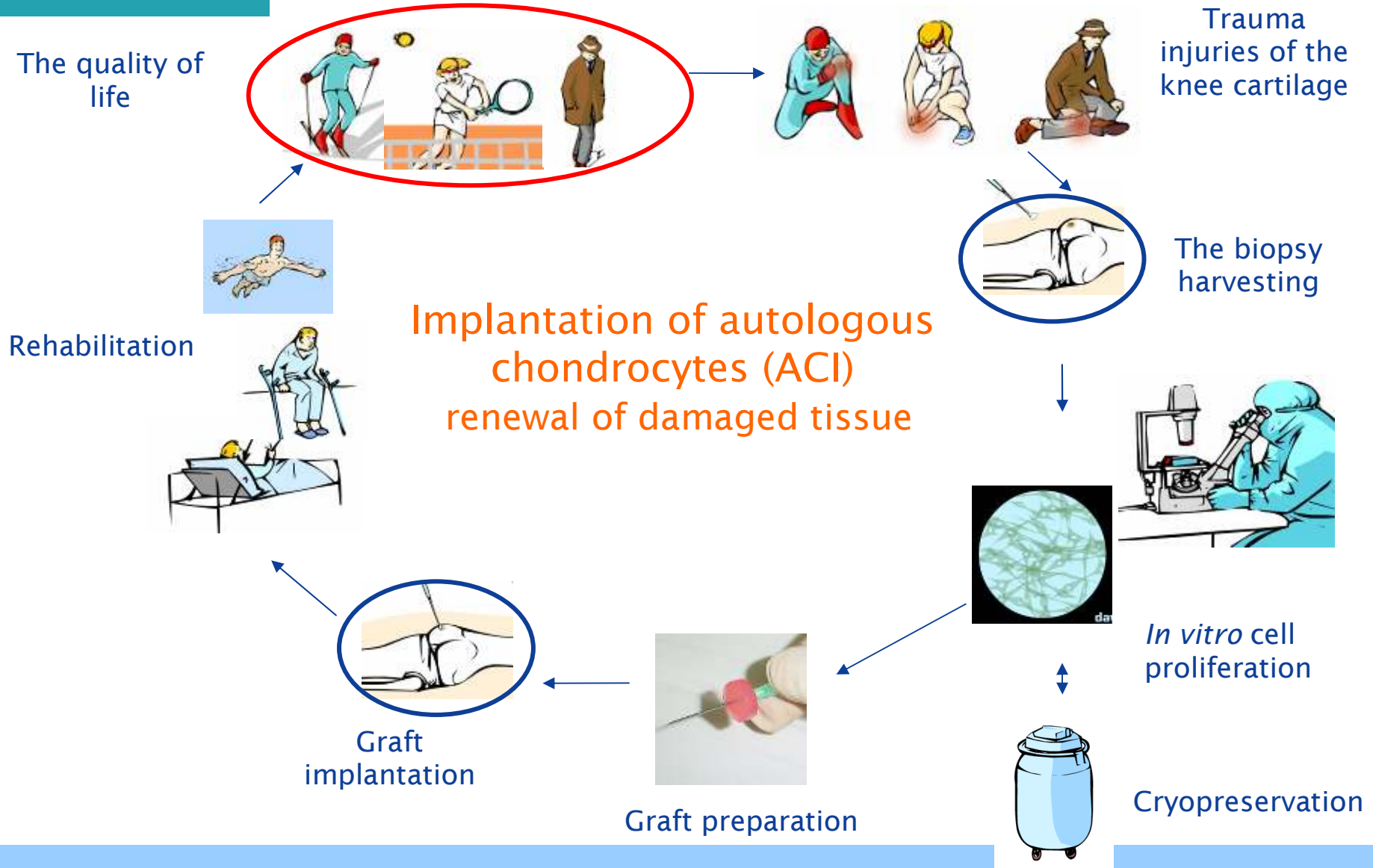
	IN THE MARKET	IN THE PIPELINE
ChondroArt™ 1D	Regeneration of joint cartilage – <b>cell suspension of chondrocytes</b> : 40 cases, 10 - year evaluation	
ChondroArt™ 2D	Regeneration of joint cartilage – <b>chondrocytes on the “scaffold”</b> : 150 cases, 7 - year evaluation	
ChondroArt™ 3D	Regeneration of joint cartilage – <b>chondrocytes in gel 3D matrix</b> : 12 cases, 2 - year evaluation	ChondroArt™ 3D-A: Innovative next generation of ChondroArt™ family products
UroArt™	Vesicourethral reflux treatment: 12 cases, 8 - year evaluation	
BoneArt™ family		Periodontal bone replacement: 5 cases, 5 - year evaluation Long bone repair (hypotrophic pseudoarthrosis): 6 cases, 3 - year evaluation
DiscArt™		Intervertebral disc replacement
Stem cell technology		Investigation of stem cells in adult tissues

## Before 1st application (ACI) in Slovenia

- The development of methodology for chondrocyte tissue culture
  - research project (financed by the Slovenian research Agency)
  - led by senior researcher (dr. Matjaž Jeras)
- The development of methodology for quality control of the products
  - part of the research project (“in house tests”)
  - some test carried out in partner institutions
- The transfer of operative technique for ACI from the group of dr. Peterson (SWE) in SLO (dr. Damijan Radosavljevič)
- The approval of the ethical committee of the R SLO



# Regenerative medicine returns the quality of life





## Regards from Educell's labs



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