#### Third European Academic Workshop on e-HRM

# HRIS Design Characteristics:

**Towards a General Research Framework** 



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HRIS & Design Characteristics

Framework of HRIS Design Characteristics: Overview

Framework of HRIS Design Characteristics: Illustration

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#### **Human Resource Information Systems: Definition**

- Human Resource Information Systems (HRIS) can be understood as
  - "configurations of different interacting systems
  - that aim at generating and delivering [Human Resource] HR functionality
  - in order to automate and
  - ▶ informate [Human Resource Management] HRM" [63].
- ▶ HR core functions to be supported by HRIS are, among others:
  - recruiting and selection [7],
  - compensation and benefits [15],
  - training and development [66],
  - performance management [44] as well as
  - ▶ HR planning [23].

#### **Human Resource Information Systems: Benefits**

- ▶ HRIS show the following benefits, among others:
  - the improvement of HR operations and management processes by means of increased quality of decision making [4, 29, 36],
  - the improvement of "employee satisfaction by delivering HR services more quickly and accurately" [29].

#### Human Resource Information Systems: How to Ensure their Success?

- ▶ The profit of applying HRIS strongly depends on their appropriate
  - development,
  - implementation and
  - (permanent) improvement
     as this will ascertain HRIS success [13, 29, 61].

#### HRIS Design Characteristics: Definition

- ▶ HRIS design characteristics are understood as
  - ▶ a set of properties inherent to HRIS [28]
  - by which they can be
    - developed,
    - implemented and
    - permanently improved [13, 29, 61]
  - > and which are
    - conceptually assumed or
    - empirically verified

to have a positive impact on system success [9, 12, 46, 70, 71, 76]

#### HRIS Design Characteristics: Why Basic Research is Needed?

- ▶ Only few research contributions explicitly deal with HRIS design characteristics by
  - exploring [37, 45, 55, 68, 75],
  - ▶ applying [1, 37, 38, 39, 52, 55, 68, 75, 76] or
  - reviewing [45]diverse design characteristics at present.

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#### Framework of HRIS Design Characteristics: Why and for Whom?

- ▶ A general research framework of HRIS design characteristics is needed
  - which allows researchers to understand and apply crucial aspects relevant to HRIS design characteristics so that
  - practitioners may be supported in developing, implementing and permanently improving successful HRIS.

### Framework of HRIS Design Characteristics: Overview

type of success measure relevant to	decision	maker	syste	em developer		system implemen			syst	system user	
type of design characteristic	system-related					information-related					
type of application target	development			implementation			n	improvement			
validity					contingent						
method of elicitation	theory	literature review	us	e case	case study		surve	y	[]	Combina- torial approa- ches	
method of evaluation	non-empirical			empirical			combinatorial approaches				
level of granularity	coarse-grained			medium-grained				fine-grained			

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- Researchers should further elaborate each dimension of the framework to supply practitioners with well-elaborated guidelines to
  - develop,
  - implement and
  - improve successful HRIS
- ▶ Already existing research attempts [25, 26, 34, 41, 42, 49, 53] as well as theoretical underpinnings do rarely propose concrete propositions what to consider when dealing with HRIS design characteristics in particular.

#### Implications/Call for Further Research

- ▶ *Practitioners* should be equipped with comprehensive manuals for either managing the development, the implementation or the improvement of HRIS.
- Practitioners should
  - refine and customize such manuals towards individual corporate settings
  - consider the manual to lead to practical HRIS
    - development-,
    - implementation- and
    - improvement-processes

which could contribute to minimize system users' resistance, increase system users' satisfaction, and support overall HRIS success.

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## Thank you for your attention!



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