

iPad

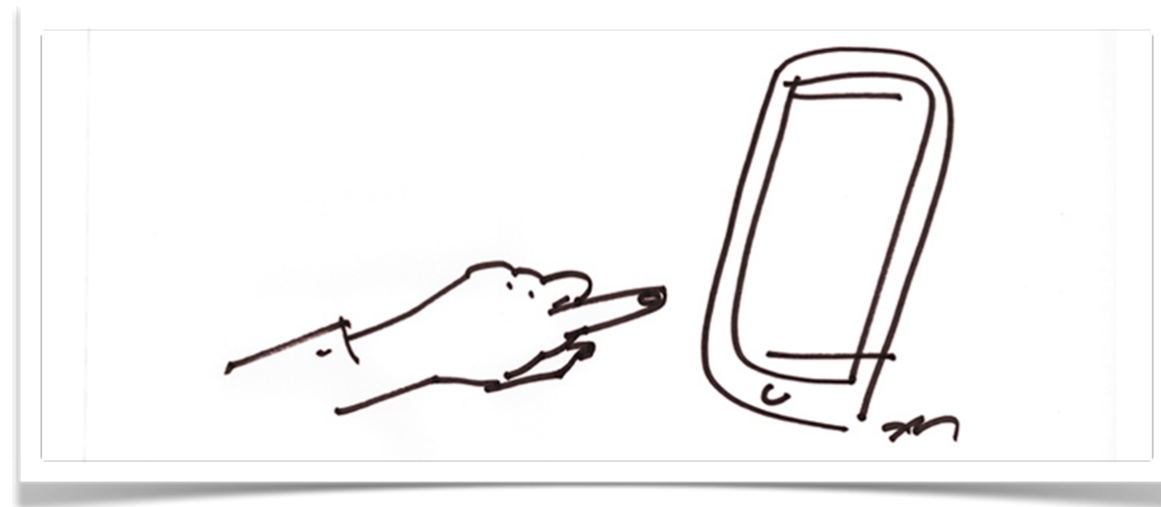
»Innovation or Gadget?«



Niels Mathiesen, **mathiesen & mathiesen**, Basel, Switzerland

iPad

»Innovation«



Inspiration through: **Technical Development**

Inspiration through: **Standardisation**

Inspiration through: **Simplicity**

Inspiration for: **The Vendor**



Content:

- **New Category:** »Tablet Touch«
- **New Philosophy:** »Simplicity«
- **New Demand:** »From anywhere on any device«
- **New Development:** »Cross device«
- **Live Examples:**
 - **Live:** »iPad Keynote« / »2screens«
 - **Live:** »iPad QlikView«
 - **Live:** »iPad for Clinical Trials«



Evolution:
Change
your way
to work
with
computer



Tablet Touch Device are Real

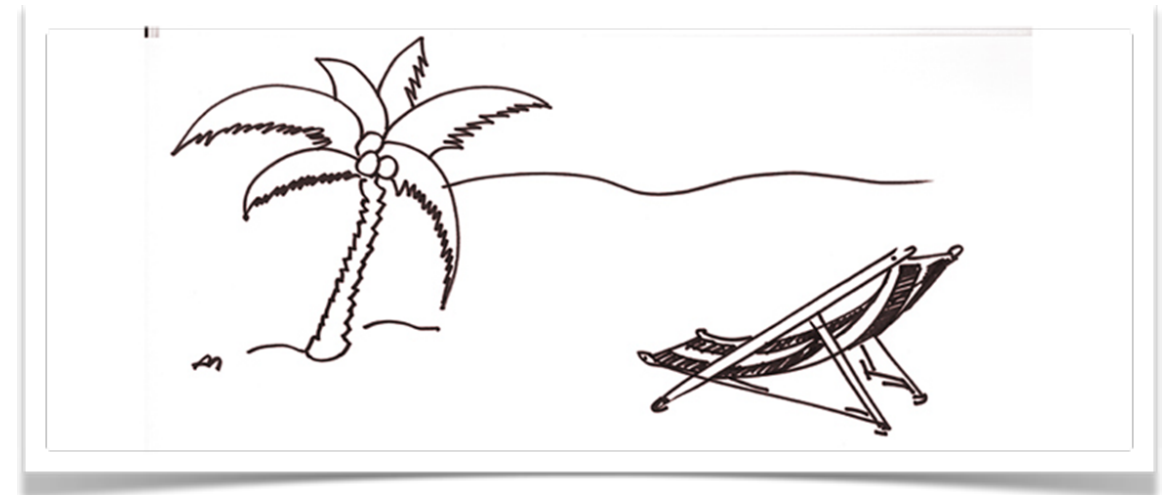
+ 30 Mill in 2011

App Internet Software

**More than 64 millions
Apps (Apple customers)**

Inspiration for Simplicity

**Also for Life Sciences
Software**

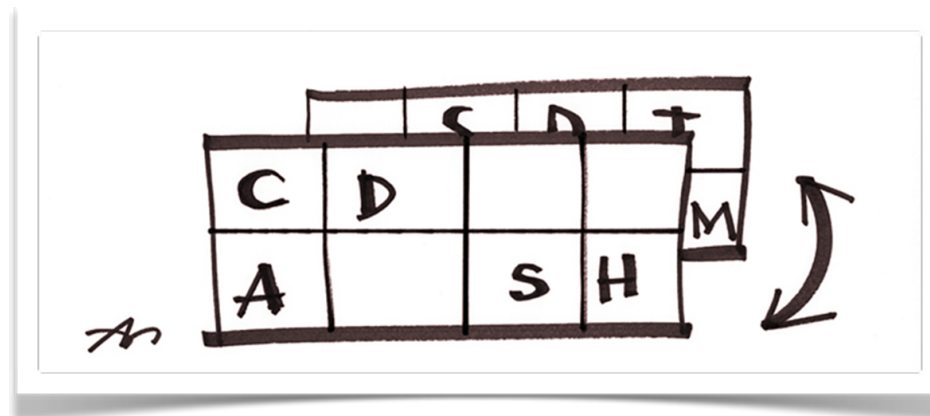


Your Benefit

**Change *your* way to
work with computer**

Technology Outlook

- Constantly New Tablet Devices
- iOS 4.2 (November 2010)
- Android 3.0 (end 2010)
- CDISC; CDASH; **SDTM Export;**
Define.xml



No Magic by the help of Web-Application



Desktop



Tablet



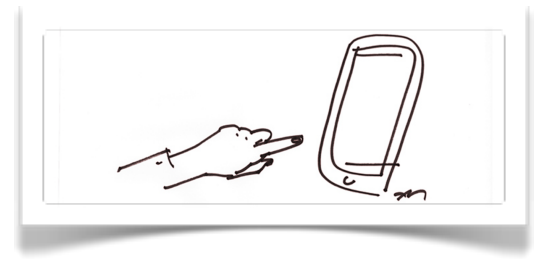
Phone



Evolution:
Cross Device

Web-Application

**From anywhere and
on any device**



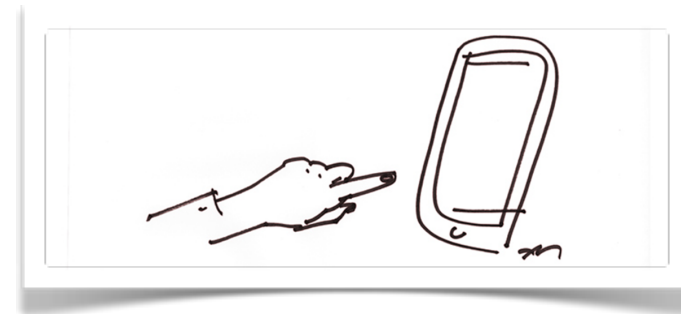
App Internet = HTML / Javascript / CSS (one possibility)

- Wireless Connection
- Browser
- HTML5
- JavaScript /AJAX
- Server side intelligence
- Webserver

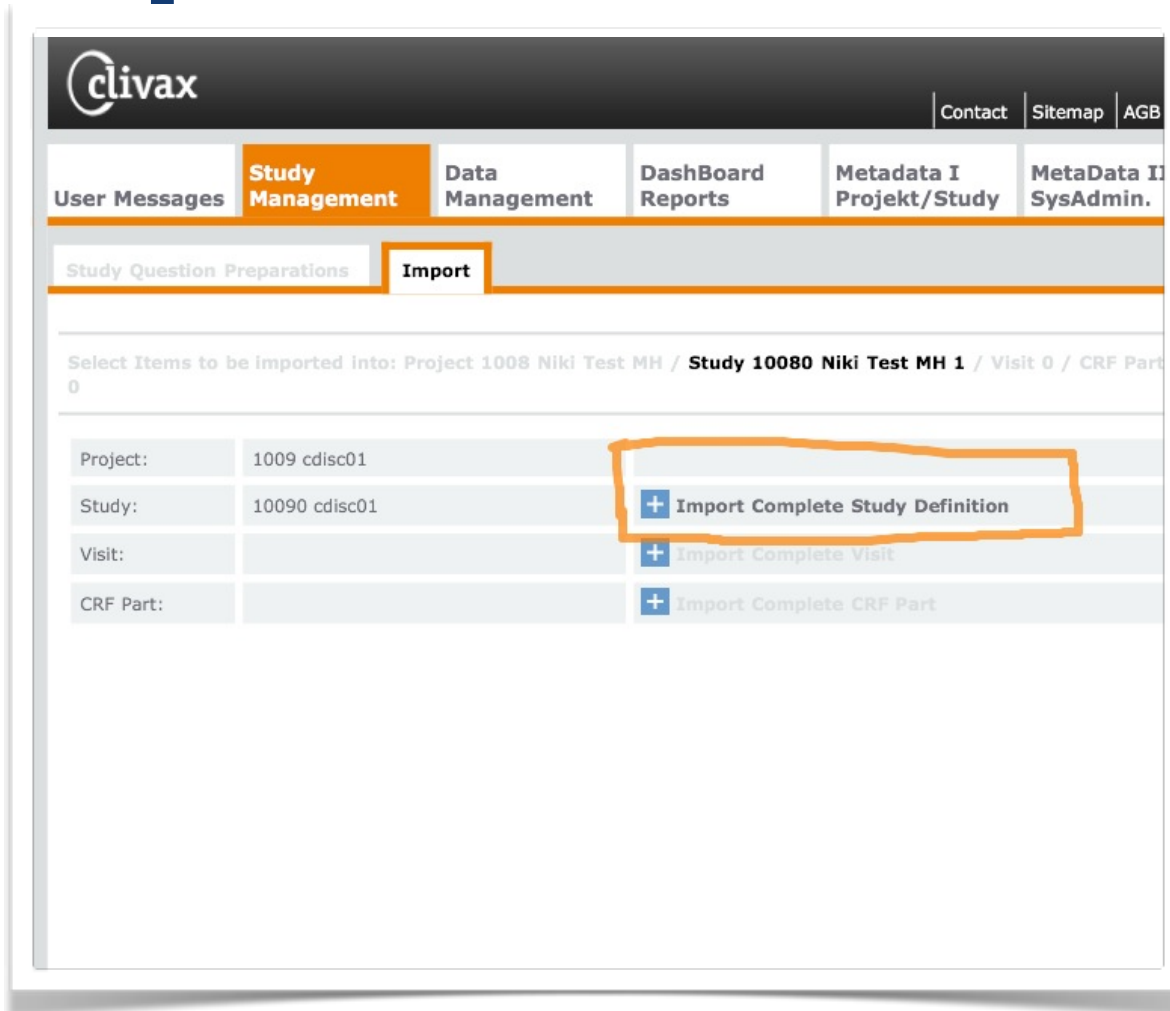
Simplicity

Designed for Touchscreen

- Only one source code
- **NEW: JavaScript Cross Device Library from JQuery**



Example of code



The screenshot shows the clivax web application. The top navigation bar includes 'clivax', 'Contact', 'Sitemap', and 'AGB'. Below this is a secondary navigation bar with 'User Messages', 'Study Management' (highlighted), 'Data Management', 'DashBoard Reports', 'Metadata I Projekt/Study', and 'MetaData I SysAdmin.'. Under 'Study Management', there are two sub-tabs: 'Study Question Preparations' and 'Import' (highlighted). The main content area shows a selection path: 'Select Items to be imported into: Project 1008 Niki Test MH / Study 10080 Niki Test MH 1 / Visit 0 / CRF Part 0'. Below this is a table with four rows, each representing a different import option. The first row is 'Project: 1009 cdisc01' with a button '+ Import Complete Study Definition' highlighted by an orange box. The other three rows are 'Study: 10090 cdisc01', 'Visit:', and 'CRF Part:', each with a corresponding '+ Import Complete' button.

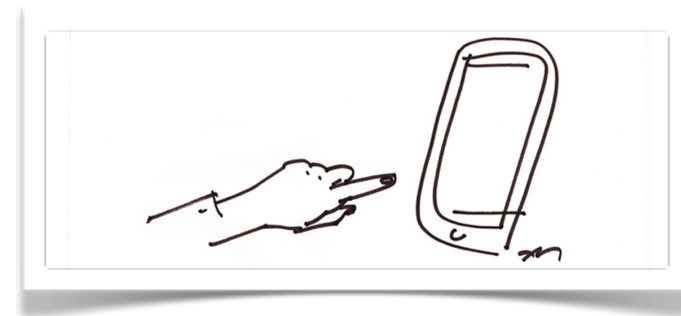
Project:	1009 cdisc01	+ Import Complete Study Definition
Study:	10090 cdisc01	+ Import Complete Visit
Visit:		+ Import Complete CRF Part
CRF Part:		

+ Import Complete Study Definition

+ Import Complete Study Definition

Html Code

```
<td class="TreeCol4">
<div class="PassiveButton" id="copycd11ques34_study" onClick="jsCopyCd11ques34(this);" >
<p>Import Complete Study Definition</p>
</div>
</td>
```



Example of code

[+ Import Complete Study Definition](#)

```
function jsCopyCd11ques34(oButton) {

    if (oButton.className == "ActiveButton") {

        var oForm = vdf.core.findForm(oButton);
        var oTree = oForm.getControl("main_Tree");
        //alert(oForm);

        var oNode = oTree.getSelectedNode();
        if(oNode) {

            var oVdfCall = new vdf.ajax.VdfCall("ood11ques34", "get",
            oVdfCall.bSuppressError = true;
            oVdfCall.addParameter(vdf.sys.cookie.get("vdfSessionKey")
            oVdfCall.addParameter(oNode.sIconClass); //Level
            oVdfCall.addParameter(oNode.sValue); //rowid
            oVdfCall.onFinished.addListener(jsCopyCd11ques34_response
            oVdfCall.send(true);

        }; //if oNode

    }

}
```

JavaScript Code

Server side Code

```
{ Published = True }
{ Description = "" }
Function CopyCd11ques34 String sSessionKey String sLevel String sRowId Returns String
```

App Internet: Business Intelligence Examples

- **QlikView (Viewing of data)**

**Selected part of the iPad
marketing video from QlikView**

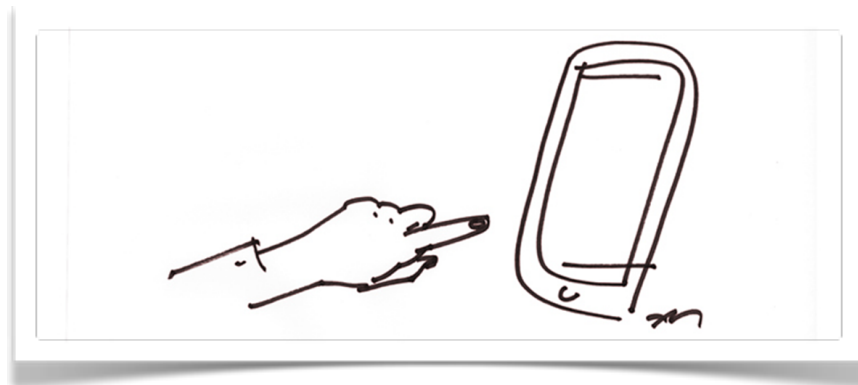
<http://www.qlikview.com/us/explore/products/qv-for-mobile/ipad#/us/videos/landing-pages/qlikview-for-ipad?ga-link=hero>



- **Or Spotfire**

App Internet: Clinical Trial Examples

- **Cross Device**
Desktop $\Leftrightarrow$ iPad
- **Cross Workflow**
From Protocol to Submission
End to End



Could not wait for the future !

Using Standardisation/CDASH up front

LIVE on the iPad

**Meta
data**

**eCRF
Design**

Blank.crf

**Data
Entrence**

**Validation
Communi
cation**

**Signal
Frame
Work**

**SDTM
Define.xml**

**eSubmis-
sion**

- 1. Signal Framework with iPad**
- 2. eCRF with iPad**
- 3. Design of eCRF and Management with iPad**
- 4. SDTM Export with iPad**

1. Signal Framework with iPad

2. eCRF with iPad

3. Design of eCRF and Management with iPad

4. SDTM Export with iPad



www.clivax.com



»iPAD« Clinical Trial Examples

1. Signal Framework with iPad

2. eCRF with iPad

A screenshot of a clinical trial eCRF form displayed on an iPad. The form is titled "Demography" and includes fields for "Date of Birth:", "Gender", "Ethnicity", and "Race - Check all that apply". The "Date of Birth:" field has a date picker set to "23.08.2010" and a green circle highlights the empty space to its right. The "Gender" field has radio buttons for "FEMALE", "MALE", and "UNKNOWN". The "Ethnicity" field has radio buttons for "HISPANIC OR LATINO" and "NOT HISPANIC OR LATINO". The "Race" field has radio buttons for "WHITE", "AMERICAN INDIAN OR ALASKA NATIVE", "BLACK OR AFRICAN AMERICAN", and "NATIVE HAWAIIAN OR OTHER PACIFIC ISLANDER". The form is part of a larger system, with the top header showing "Project 1010 Coloplast / Study 10100 ColoSura / Center 1 / Patient 1002 / Visit 10 22.08.2010 /".

Project 1010 Coloplast / Study 10100 ColoSura / Center 1 / Patient 1002 / Visit 10 22.08.2010 /

Demography

Date of Birth:

Answer 23.08.2010 +

Gender

Answer ☒ FEMALE
☐ MALE
☐ UNKNOWN

Ethnicity

Answer ☒ HISPANIC OR LATINO
☐ NOT HISPANIC OR LATINO

Race - Check all that apply

Answer ☐ WHITE
☐ AMERICAN INDIAN OR ALASKA NATIVE
☐ BLACK OR AFRICAN AMERICAN
☐ NATIVE HAWAIIAN OR OTHER PACIFIC ISLANDER

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3. Design of eCRF and Management with iPad

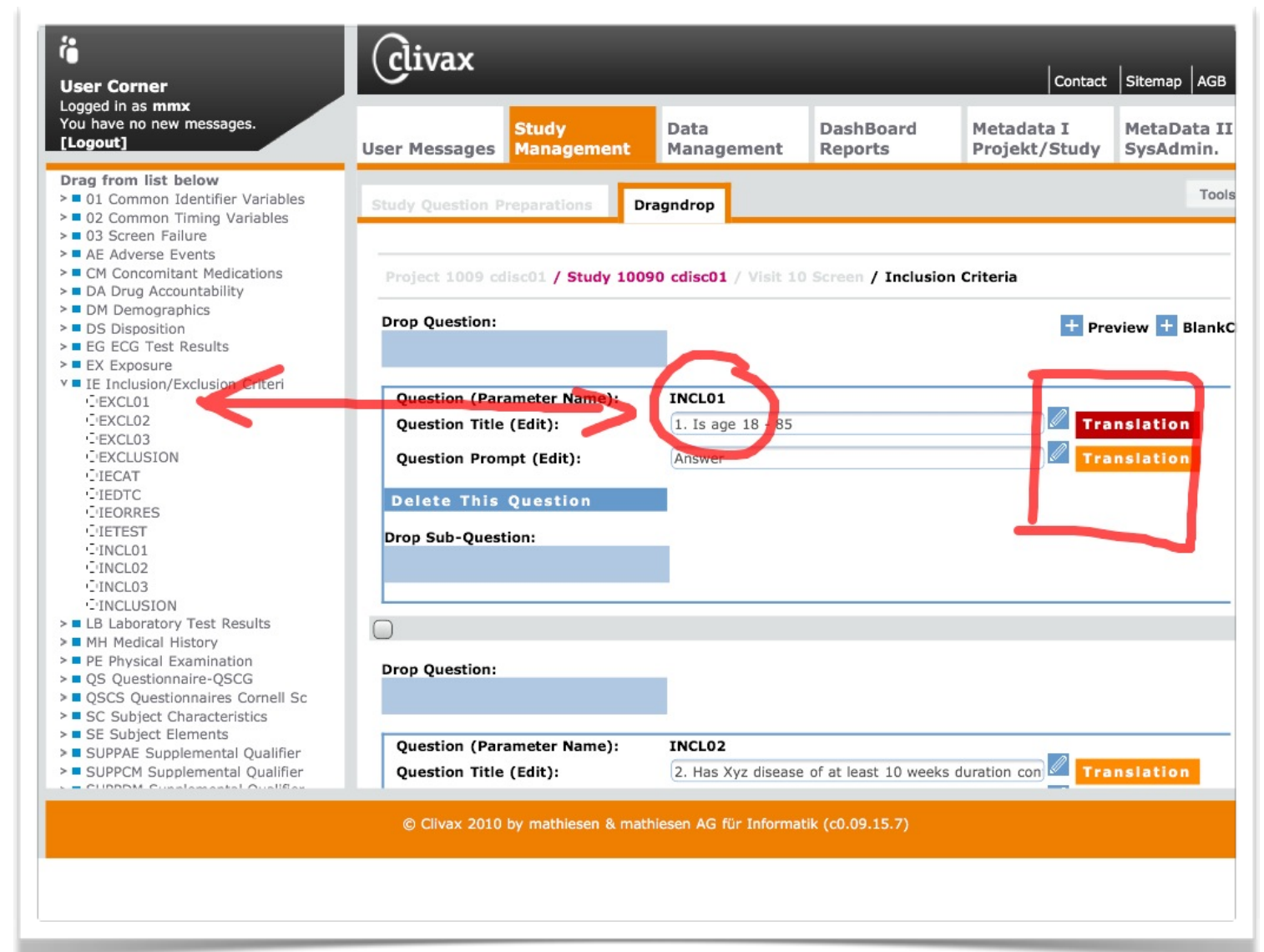
4. SDTM Export with iPad

»iPAD« Clinical Trial Examples

1. Signal Framework with iPad

2. eCRF with iPad

3. Design of eCRF and Management with iPad



User Corner
Logged in as mmx
You have no new messages.
[Logout]

clivax | Contact | Sitemap | AGB

User Messages | **Study Management** | Data Management | DashBoard Reports | Metadata I Projekt/Study | Metadata II SysAdmin.

Study Question Preparations | **Dragndrop** | Tools

Project 1009 cdisc01 / Study 10090 cdisc01 / Visit 10 Screen / Inclusion Criteria

Drop Question: [+ Preview + BlankC]

Question (Parameter Name): INCL01

Question Title (Edit): 1. Is age 18 - 85

Question Prompt (Edit): Answer

Delete This Question

Drop Sub-Question:

Drop Question:

Question (Parameter Name): INCL02

Question Title (Edit): 2. Has Xyz disease of at least 10 weeks duration con

Translation

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4. SDTM Export with iPad



»iPAD« Clinical Trial Examples

1. Signal Framework with iPad

2. eCRF with iPad

3. Design of eCRF and Management with iPad

4. SDTM Export with iPad

```
- <LIBRARY type="GENERIC" version="9.2">
- <QSCS>
  <STUDYID>10090</STUDYID>
  <DOMAIN>QSCS</DOMAIN>
  <USUBJID>10090.1005</USUBJID>
  <QSSEQ>1</QSSEQ>
  <QSTESTCD>CSDD01</QSTESTCD>
  <QSTEST>ANXIETY</QSTEST>
  <QSCAT>CORNELL SCALE FOR DEPRESSION IN DEMENTIA</QSCAT>
  <QSSCAT>Mood - Related Signs</QSSCAT>
  <QSORRES />
  <QSSTRESC />
  <QSSTRESN />
  <QSBFL />
  <VISITNUM>10</VISITNUM>
  <VISIT>Screen</VISIT>
  <VISITDY>-13</VISITDY>
  <QSDTC>2010-09-04</QSDTC>
  <QSDY>not yet available</QSDY>
</QSCS>
- <QSCS>
  <STUDYID>10090</STUDYID>
  <DOMAIN>QSCS</DOMAIN>
  <USUBJID>10090.1005</USUBJID>
```



More Simplicity

»ePrint«

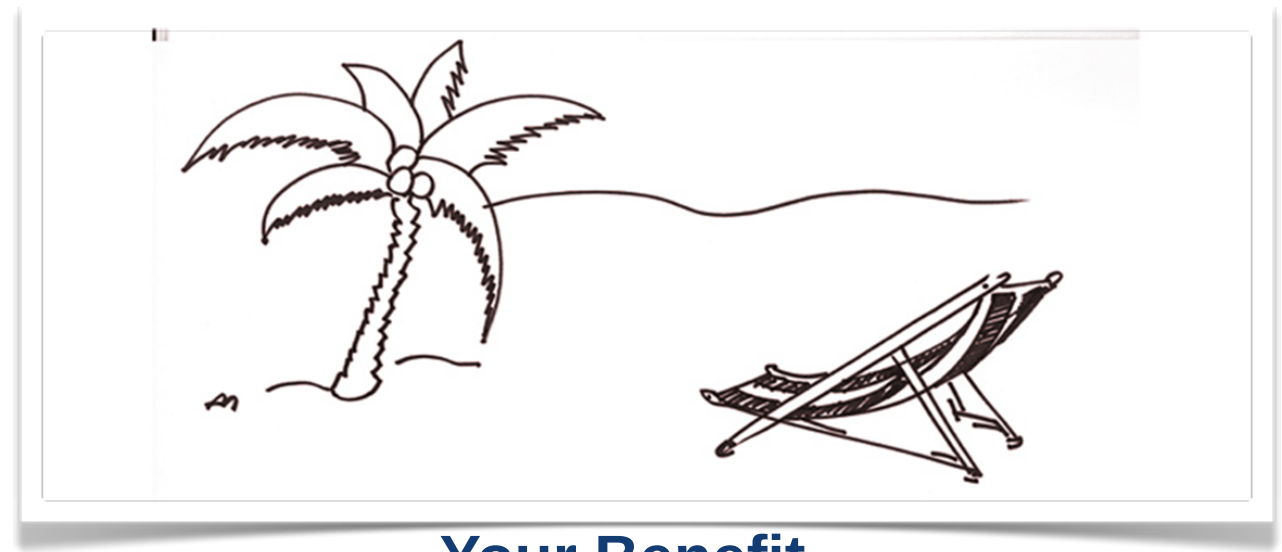
"To print a document you will email it to the printer and it will then print it for you. «



Example of Mail: 4xx9eni95uzlezmm@hpeprint.com

Conclusion

- From anywhere and on any device
- Simplicity
- Cross device
- iPad (tablet touch device)
- Much more than a Gadget
- Challenge for the Software Developer



Your Benefit

Change **your** way to work with computer

Questions



Niels Mathiesen

mathiesen & mathiesen

AG für informatik

niels.mathiesen@m-m.ag



Peter Merianstrasse 45

CH 4002 Basel

+41 61 271 69 42

www.clivax.com