

Electronic Healthcare
Supported with
Digital Pen & Paper

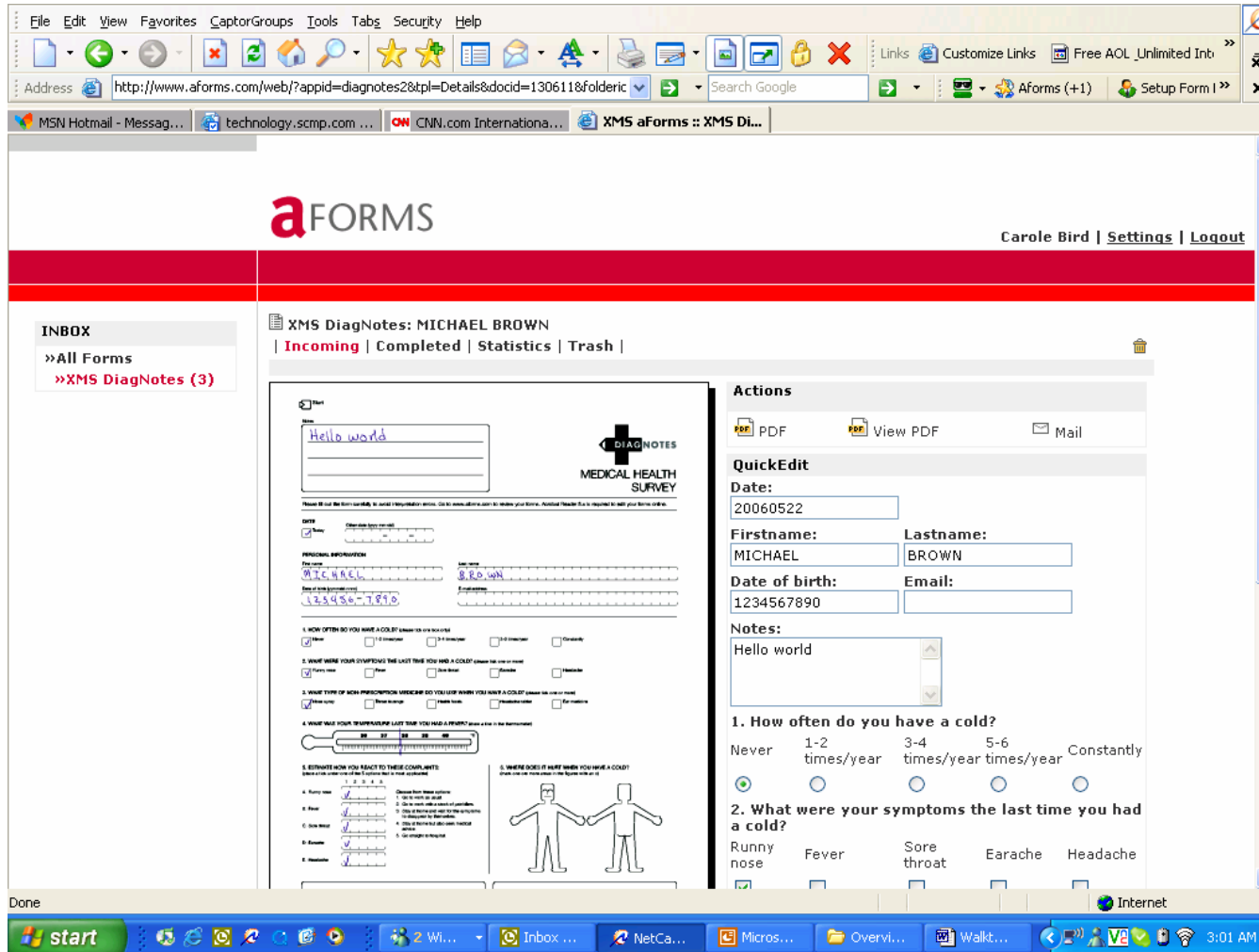
eHealth Forum
Hong Kong
September 2006

- **Paper is everywhere in healthcare**
- **Bottleneck exists in putting information**
- **Sharing information is crucial**
- **Pen and Paper meet the digital world – Swedish technology**
- **Bottom line – Public welfare and protection**

- **Paper is everywhere in healthcare**
 - **Public services are paper intensive – surveys / studies / etc.**
 - **Patient records, ancillary service requests, prescriptions**
- **Written information is important**
 - **Providing excellent healthcare for the patient**
 - **Public welfare**
 - **Planning resources**
 - **Allocating operational expenses**
- **Easy and intuitive to write notes while caring for patients**

- **Bottleneck exists inputting information**
- **Key Benefits of Data**
 - **Efficient and easy collaboration**
 - **Sharing among doctors and hospitals**
 - **Storage and retrieval**
- **Digital pen and paper enables data on handwritten notes and forms to be instantly available on computers**
- **This data can be used to make efficient and intelligent decisions**
- **Enabling global information sharing and broad planning**

- **Enables healthcare professionals to continue using ink pens (with embedded technology) and regular paper (printed with a dot pattern) to**
 - **Write notes and fill in forms**
 - **Instantly transfer information using wireless technology to computers and other information servers**
- **Friendly and familiar – Forms / Drawings / Notes**
 - **Enables writing in your native language (ex. Chinese)**



Sharing information is crucial

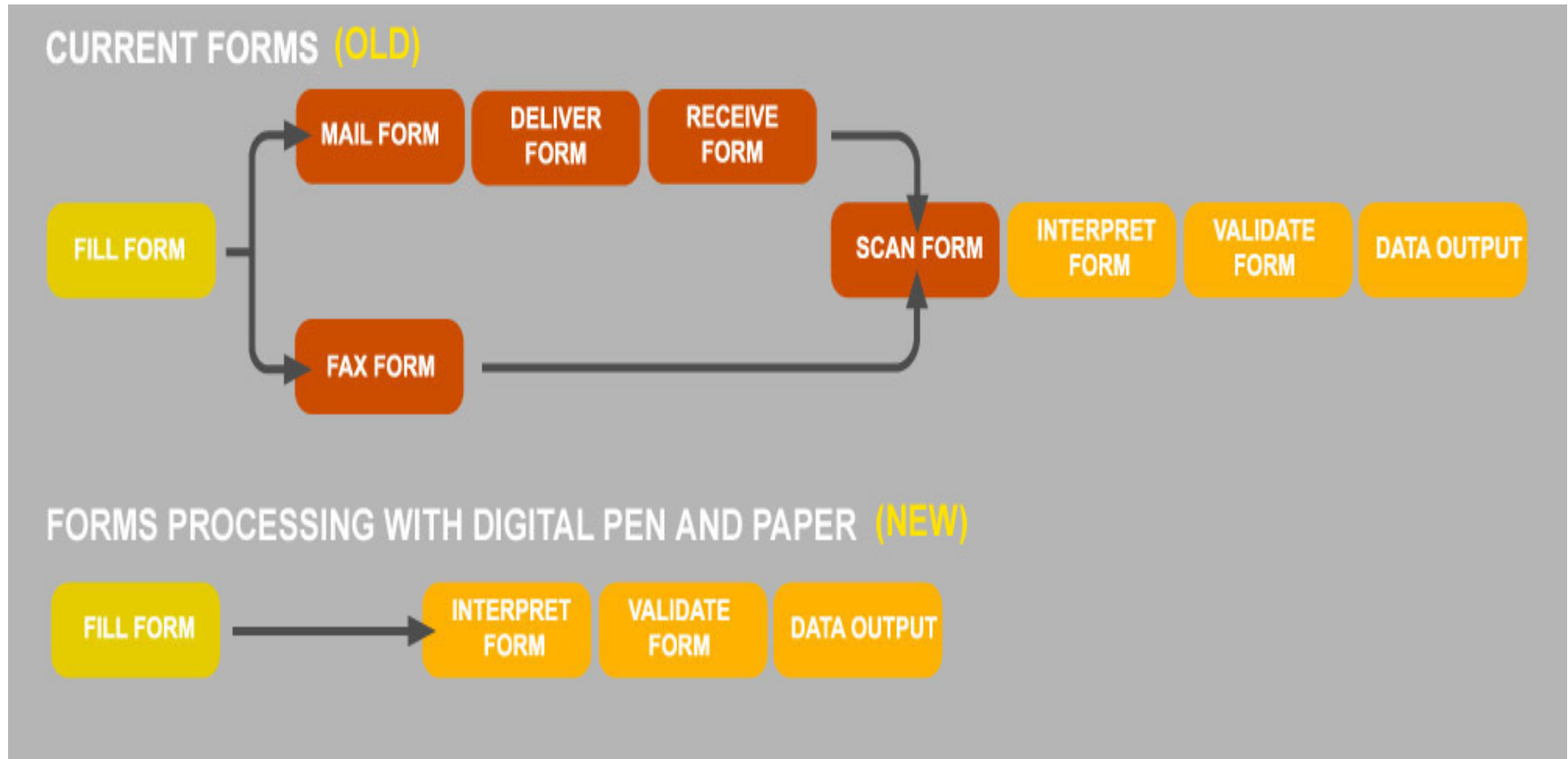


- **Sharing information across hospitals and across borders is crucial in today's global world**
 - **Capacity to detect and respond**
 - **Control and contain**
 - **Track trends**
 - **Lead prevention**
 - **Develop contingency plans**
- **Timely (immediate) information is critical to supporting public health**
 - **Within communities**
 - **Across regions**
 - **Global solidarity**

'Journey' of a Paper Form



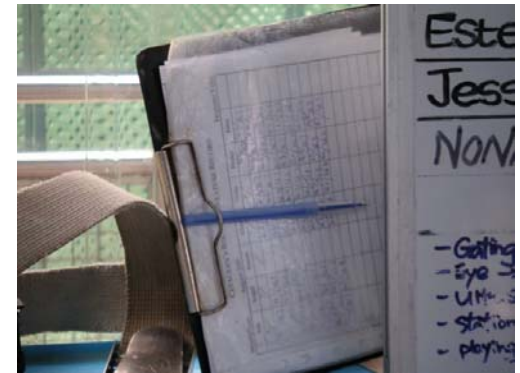
Automate to gain efficiency, save time and effort
Realize real-time business and market knowledge

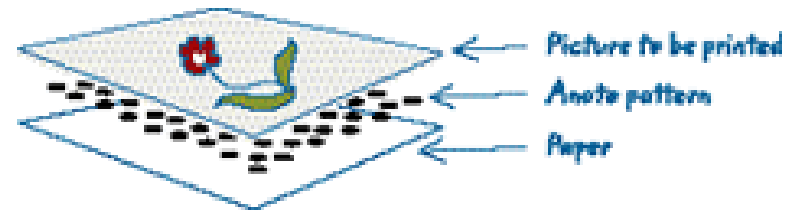
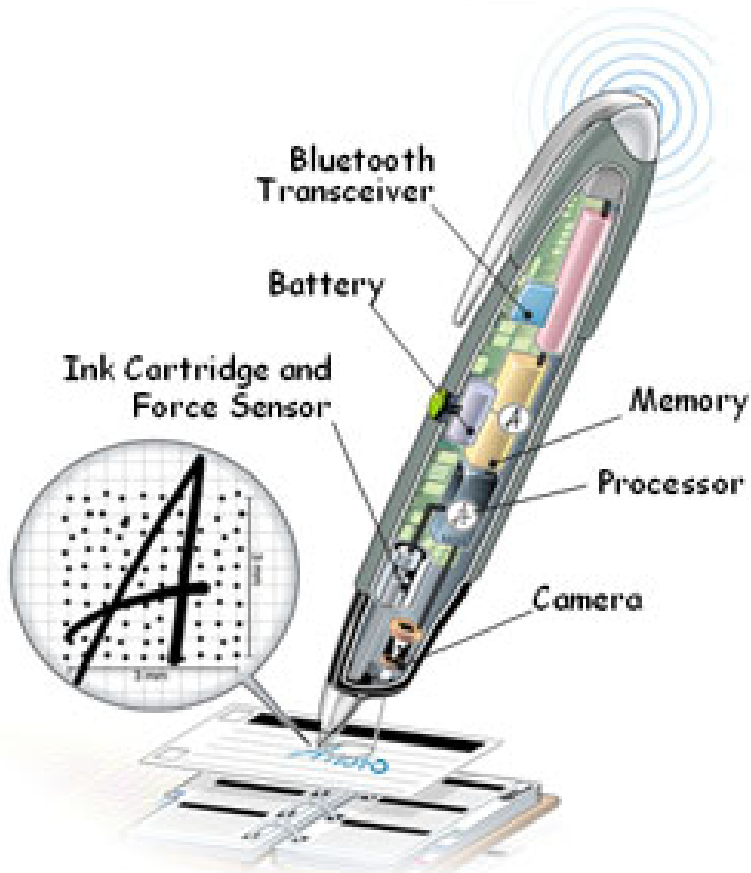


Pen & Paper meet the digital world



- **Paper isn't going away**
 - **Convenient** – can be used anywhere
 - **Compliance** – document submission
- **Digital is essential for efficiency**
 - **Communication** – mobile teams / critical decisions
 - **Resource planning**
 - **Time-critical information**
 - **Storage format**





- Captures and stores whatever you write/ draw
- Sends strokes via Bluetooth or USB

- Pattern is algorithm of dots
- Defines where you are on the page, which page you are on

Secure Storage Format (PDF)



Start

Name
Patient records are easy
to update using
digital pen and paper

DIAGNOTES
MEDICAL HEALTH
SURVEY

Please fill out the form carefully to avoid interpretation errors. Go to www.forms.com to make your forms. Acrobat Reader 5.0 is required to edit your forms online.

DATE
 Today Clear the appointment
2006/11/9

PERSONAL INFORMATION
First name: Melanie Last name: _____
Date of birth (year/month): _____ Email address: melanie@bimobi.com
melanie@bimobi.com

1. HOW OFTEN DO YOU HAVE A COLED? (please tick one box only)
 Never 1-2 times/year 3-4 times/year Occasionally

2. WHAT WERE YOUR SYMPTOMS THE LAST TIME YOU HAD A COLED? (please tick one or more)
 Runny nose Fever Runny throat Sore throat Headache

3. WHAT TYPE OF NON-PRESCRIPTION MEDICINE DO YOU USE WHEN YOU HAVE A COLED? (please tick one or more)
 Nasal spray Throat lozenges Health foods Herbal tea Do medicine

4. WHAT WAS YOUR TEMPERATURE LAST TIME YOU HAD A FEVER? (please tick one in the thermometer)
38 37 36 35 34 33 32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 0
39.5

5. ESTIMATE HOW YOU REACT TO THESE COMPLAINTS (please tick under one of the 5 options that is most applicable)
A. Runny nose: 1 2 3 4 5
B. Fever: 1 2 3 4 5
C. Runny throat: 1 2 3 4 5
D. Sore throat: 1 2 3 4 5
E. Headache: 1 2 3 4 5
Choose from these options:
1. Do not seek medical attention
2. Do not seek medical attention but use over-the-counter medicine
3. Buy all home remedies for the symptoms or pharmacy treatments
4. Buy all home remedies and over-the-counter medicine
5. Go straight to hospital

6. WHERE DOES IT HURT WHEN YOU HAVE A COLED? (please tick one or more areas in the figure with an X)

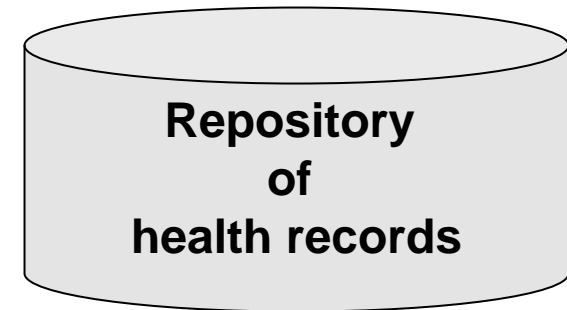
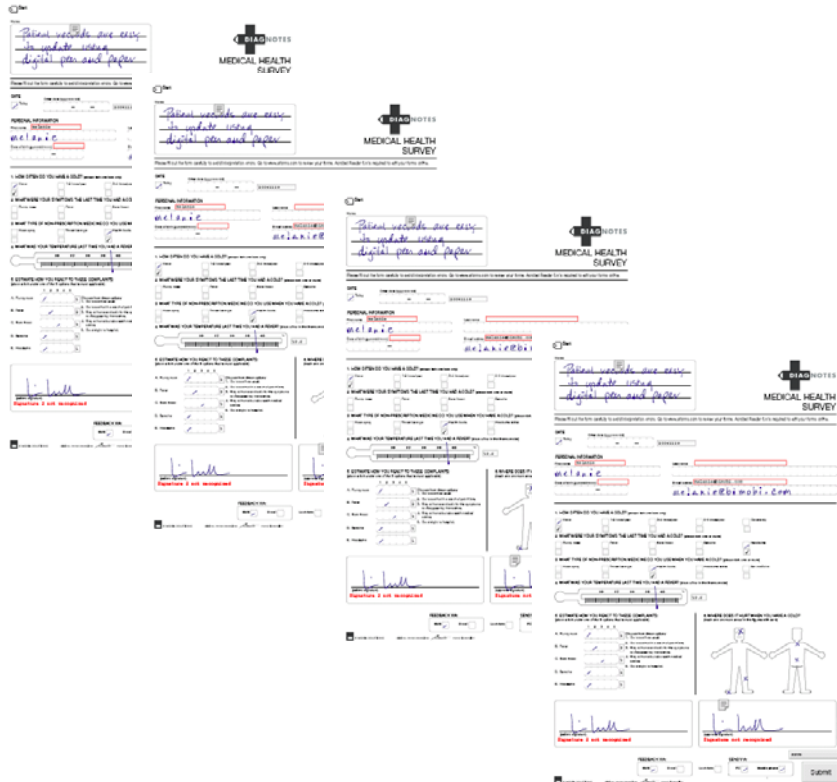
Signature 2 not recognized

FEEDBACK VIA: SMS Email

SEND VIA: Lock form PC Mobile phone

Submit

Unified Data Structure



- **Anytime, Anywhere Instant Information**
- **Allows health professionals to broadly share knowledge and experience**
 - **Share between teams, countries**
 - **Pandemic preparation/ prevention**
 - **Up-to-date information to make critical decisions around the world**

- **Well-known input mechanism – written forms and notes**
- **Multi-lingual – English / Chinese (Simplified & Traditional) / graphic capabilities**
- **Auditable – verifiable data / time and date stamp / paper back up copy**
- **Saves time – receive and verify information faster**
- **Assists risk management / business continuity**
- **Easy implementation – little training time needed**
- **Efficient – saves time, money and possibly lives**
- **ASP model – flexible locations and phases of application development**
- **Web based – accessible 24/7 around the globe**

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THANK YOU



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