

Building an Android Application with an APL Computational Engine

INTRODUCTION
Illse Nell – CEO, Riskflow Technologies

TECHNICAL PRESENTATION

Danie Maré – Head Developer, APL solutions



INTRODUCTION

- Who is Riskflow
- APL at Riskflow Technologies
- The Cashflow Optimizer App
- The future



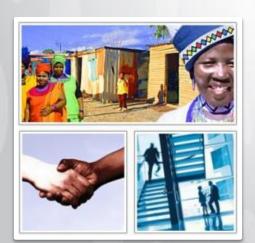
Who is Riskflow?



Riskflow Technologies



Riskflow Institute



Riskflow Enterprise Development



APL at Riskflow Technologies

1988:
APL*Plus/386
Math Co-processor
[]WSSIZE []WA
WSFULL Error







APL at Riskflow Technologies



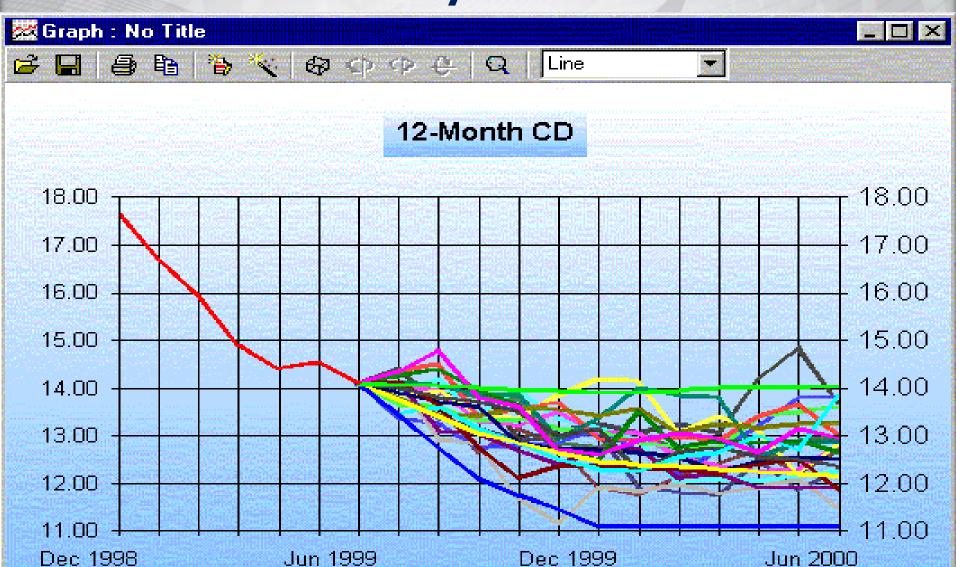








APL at Riskflow Technologies IFS – Interest rate Forecasting System



APL at Riskflow Technologies ALMAN – Asset & Liability Management

Aim: To assist financial institutions

TO MINIMISE RISKS

TO MAXIMISE PROFIT (NII)

TO ATTAIN STRATEGIC GOALS

- · MARKET SHARE
- NEW PRODUCTS
- · PROFIT GOALS





"Cash flow management is fundamental to business success. Cash flow management means financial literacy—the ability to read and make sense of financial statements. Many small-business owners go under because they can't tell the difference between profit and cash flow. Profit may be phantom cash flow. Actual cash flow is to a business what blood is to the human body."

- Robert T. Kiyosaki, Rich Dad Poor Dad



AIM

A tool to make Cashflow Management accessible to everyone

Answers to simple questions such as:

- Can I afford the car / house of my dreams?
- Where / How should I invest my money:
 Shares, Unit trusts, Fixed deposits?
- How much cash will I have next December?







Answers to sophisticated questions such as:

 Which form of financing is best for my business?



What is my business worth?

How will my cashflow be impacted if I give my employees a bonus?





Allows you to draw up your financial statements (Balance Sheet, Income & Cashflow statement)

NOT ONLY FOR YOUR CURRENT POSITION,
BUT FORECASTED INTO ANY FUTURE PERIOD

Twelve Month Income Statement Total Location/Total Department

For the Twelve Months Ending December 31, 2008 in USD As of 05/15/2009 15:55:02

As 01.0715/2,009 15:50.02													
	January	February	March	April	May	June	July	August	September	October	Kovember	December	Total Month
Non-professional Charges	814,908	558,804	621,235	716,412	969,211	816,957	1,064,270	890,157	930,396	1,139,237	943,610	1,430,601	10,895,799
Legal Fees Income	36,062,701	32,622,452	30,182,870	32,260,288	44,808,503	46,285,757	61,124,033	64,966,380	46,053,462	56,626,008	58,657,693	91,456,772	601,126,920
Collections	36,877,609	33,181,257	30,804,104	32,996,701	45,777,714	47,102,714	62,188,303	65,856,537	46,983,858	57,765,246	59,601,303	92,887,373	612,022,718
Revenues	36,877,609	33,181,257	30,804,104	32,996,701	45,777,714	47,102,714	62,188,303	65,856,537	46,983,858	57,765,246	59,601,303	92,887,373	612,022,718
NE00-02 Other Income/-Expense	3,183	(20,541)	56,938	(28,822)	(41,037)	1,717	(3,781,935)	(19,774)	(6,794)	723	(23,386)	98,578	(3:760.148)
NE00-01 Charitable contributions	79,464	152,939	199,569	183,845	137,124	73,813	28,415	151,576	208,267	104,906	366,781	89,734	1,776,433
NE00-00 Interest Expense	68,153	194,234	89,504	105,947	204,683	106,300	86,365	101,253	3,745	107,530	113,200	(10,491)	1,150,423
Non-operating Expenses	150,800	326,633	326,010	260,970	300,771	181,830	(3,667,156)	234,065	205,219	213,159	456,596	177,821	(833, 291)
Depreciation/Amortization	920,019	103,308	868,489	879,928	987,616	(51,167)	781,328	785,299	821,964	884,913	969,163	1,230,903	9,885,076
Insurance	1,191	2,445	11,640	2,641	34,410	1,130,519	(230,798)	8,109	186,834	6,533,424	(61,357)	244,086	7,863,142
Business Taxes	728	749	874	25,919	710	2,148,652	20,176	96,293	2,149,131	(1,337)	1,077	5,205,513	9,648,486
Outside Paralegals	25,563	21,280	19,962	26,448	12,997	20,863	6,837	13,751	20,326	23,015	4,943	7,177	203,162
Office Operating/Other Costs	1,005,642	760,002	1,482,993	1,058,944	845,031	1,287,022	1,223,032	980,089	932,882	1,215,627	979,961	1,117,591	12,888,816
Professional Senices	102,765	95,968	177,808	139,368	229,350	352,020	222,524	321,867	82,970	369,413	98,253	458,071	2,660,367
Information Systems	347,634	551,789	58,494	162,761	108,447	593,935	301,882	195,277	233,150	282,003	91,727	215,229	3,142,328
Non-Partner Non-US office cost	166,221	517,597	587,122	511,415	402,606	367,510	537,340	632,907	570,417	539,560	231,770	1,029,013	6,093,479
Business Development	135,036	224,748	171,472	151,303	92,743	204,768	257,489	48,950	120,214	186,907	182,850	182,939	1,959,420
Professional Activities	84,739	80,557	154,599	115,759	58,624	114,866	72,864	91,303	123,105	(379,975)		265,504	966,236
Legal recruting/Training	342,135	437,348	703,747	391,933	765,248	741,029	758,928	478,319	687,019	598,709	701,026	629,807	7,235,251
Library	293,325	601,246	627,791	698,727	497,349	634,191	786,880	559,660	315,243	1,051,331	696,625	1,406,797	8,069,165
Communication	271,899	242,161	435,337	344,074	468,667	461,001	306,368	263,432	378,255	274,437	362,707	662,415	4,460,742
Occupancy	121,750	2,962,187	4,716,059	3,216,458	3,284,774	5,044,891	6,245,401	3,506,910	5,045,117	3,270,236	3,169,559	10,937,451	51,519,793
Fringe Benefits	985,998	1,962,922	1,758,685	1,865,444	1,861,283	1,687,206	1,642,885	1,420,560	1,327,376	1,972,246	1,726,582	8,141,337	26,352,522
Salaries	11,377,755	13,304,290	12,068,062	11,863,981	13,885,405	13,329,131	12,630,237	12,035,911	11,780,940	12,867,839	22,084,668	33,076,020	180,294,229
Client Disbursement Write-Offs	(42,409)			(73,860)	(102,157)		(161,581)	(151,736)	(345,692)				
Operating Expenses	16,139,991	22,460,151	23,750,058	21,281,244	23,433,101	27,859,677	25,401,783	21,285,891	24,429,253	29,617,561	31,235,363	64,450,877	331,344,951
Expenses	16,290,791	22,786,784	24,076,068	21,542,214	23,733,872	28,041,507	21,734,628	21,519,946	24,634,472	29,830,720	31,691,959	64,628,698	
Net Income	53,168,400	55,968,041	54,880,173	54,538,915	69,511,586	75,144,220	83,922,931	87,376,483	71,618,330	87,595,966	91,293,262	157,516,071	942,534,378

Enables you to distribute this information





Target Market

- Individuals & SMEs
- Educational organizations







Business Model:

Supply software to organizations with large client bases and then let them offer the App as a value-add.

This strategy will allow an organization to assess the financial soundness of their clients, helping the organization with ...





THE FUTURE OF APL AT RISKFLOW

Expand the App allowing for more sophisticated calculations

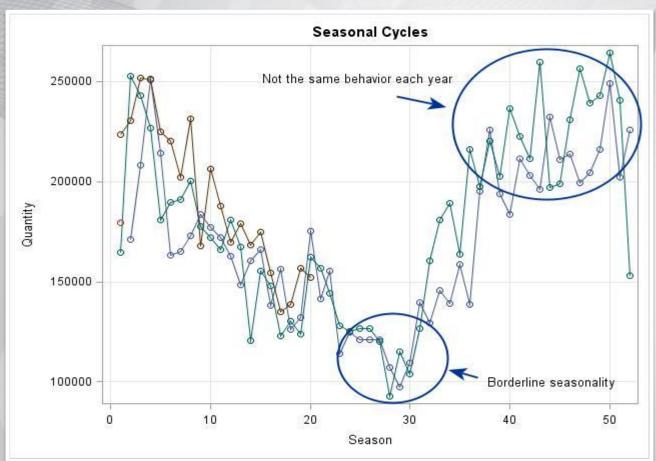
WHAT PART OF

 $F_{s} = \iiint_{v} \beta_{b} dv + \iiint_{v} [\ddot{R} + [2\omega x \vee_{xyz}] + [\dot{\omega}xr] + \omega x [\omega xr]] \rho dv =$

DON'TYOU UNDERSTAND?



THE FUTURE OF APL AT RISKFLOW



Completely rewrite IFS (as cloud application) with new statistical forecasting techniques



THE FUTURE OF APL AT RISKFLOW

Take ALMAN to the cloud









Gaming – Serious Play



How to play:

Click the spin button to advance through the financial stages of life.

Plan wisely and watch your savings grow!

Quick access:

Financial Stages:

1 2 3 4

5 6 7

Unexpected Expenses:

a b c



Managing Tomorrow's Cash Flow Risks Today!

THANK YOU



ASSET & LIABILITY MANAGEMENT